DOCUMENT RESUME

ED 116 626

IR 002 858

AUTHOR

Newren, Edward F., Ed.

TITLE

NOTE

Japanese Science Films: a Descriptive and Evaluative Catalog of: 16mm Motion Pictures, 8mm Cartridges, and

Video Tapes.

INSTITUTION SPONS AGENCY PUB DATE

American Science Film Association, Bethesda, Md. National Science Foundation, Washington, D.C.

Aug 73. 111p.

EDRS PRICE DESCRIPTORS MF-\$0.76 HC-\$5.70 Plus Postage Bibliographies; Earth Science; Elementary School

Science: Engineering Technology; *Films; *Foreign Language Films: Higher Education: Instructional Films: Mathematics: Meteorology: Physical Sciences: Physics: Resource Guides: Secondary School Science;

*Video Tape Recordings

IDENTIFIERS

Japan: *US Japan Science Film Exchange Project

ABSTRACT

One hundred and eighty Japanese 16mm motion pictures, 8mm cartridges, and video tapes produced and judged appropriate for a variety of audience levels are listed in alphabetical order by title with descriptive and evaluative information. A subject heading list and a subject index to the film titles are included, as well as a sample of the evaluation form used, a list of the evaluation specialists, and a list of the evaluation sites. Awong the 19 subject areas listed are: archeology, microbiology, oceanography, astronomy, and ornithology. Evaluation was based on content, audience suitability, structure, picture, sound, and photo technique. The film were identified as part of the U.S.-Japan Science Film Exchange Project. (Author/DS)

Documents acquired by ERIC include many informal unpublished * materials not available from other sources. ERIC makes every effort * to obtain the best copy available. Nevertheless, items of marginal * reproducibility are often encountered and this affects the quality * of the microfiche and hardcopy reproductions ERIC makes available via the ERIC Document Reproduction Service (EDRS). EDRS is not responsible for the quality of the original document. Reproductions * supplied by EDRS are the best that can be made from the original. ****************

JAPANESE SCIENCE FILMS

A Descriptive and Evaluative Catalog of:

16mm Motion Pictures, 8mm Cartridges, and Video Tapes

U S OEPARTMENT OF HEALTH, EOUCATION & WELFARE NATIONAL INSTITUTE OF EOUCATION

THIS OOCUMENT HAS BEEN REPRO-OUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGIN-ATING IT POINTS OF VIEW OR OPINIONS STATEO DO NOT NECESSARILY REPRE-SENT OFFICIAL NATIONAL INSTITUTE OF EOUCATION POSITION OR POLICY

Editor

Edward F. Newren Assistant Professor Schools of Library Science and Education The University of Michigan

IR 002 858



The contents of this catalog are derived from the "U.S.-Japan Schence Film Exchange Project," sponsored by the Extional Science Foundation and administered by the American Science Film Association.

Published August, 1973 by:

American Science Film Association 7720 Viscossin Avenue Ecthesis, Maryland 20014

Contents

Foreword
Introduction to Organization of Catalog
Subject Heading List
Subject Index
Film Descriptions and Evaluations
Appendix One: Sample Evaluation Form99
Appendix Two: Evaluation Team Coordinators
Appendix Three: Evaluation Specialist Team Members, Phase I of Evaluation Process
Appendix Four: Evaluation Sites, Phase II of Evaluation Process

Foreword

U.S. - JAPAN SCIENCE FILM EXCHANGE PROJECT: A COOPERATIVE RESEARCH VENTURE

Purpose

The objective of this Film Exchange Project was to determine what benefits could be derived for science education, at various academic levels, from the exchange of science films between the United States and Japan.

Background

The United States-Japan Cooperative Science Program was generated out of discussions between President John F. Kennedy and Prime Minister Hayato Ikeda in 1961. Recognizing the importance of expanding educational, cultural, and scientific cooperation, these national leaders formed committees to search for means of establishing and strengthening international cooperation between their two countries. The Cooperative Science Program is one of the means developed and it is based upon shared support, and emphasizes activities of common scientific interest.

The U.S.-Japan Science Film Exchange Project was developed in 1967 out of this United States-Japan Cooperative Science Program under the category of "Education in the Sciences." In the United States, the implementing agency was the National Science Foundation (NSF) and the Project was administered by the American Science Film Association (ASFA). The initial Principal Investigator for ASFA was Dr. Edward W. Bird, Bureau of Medicine and Surgery, Department of the Navy. He was succeeded in 1968 by Dr. Malcolm S. Ferguson, Media Resources Supervisor at the National Library of Medicine and Executive Vice-President of ASFA. The Assistant Investigator for ASFA, in charge of the evaluative phase of the Project, was Edward F. Newren, Assistant Professor, School of Library Science and Education, University of Michigan. In Tokyo, the Japan Society for the Promotion of Science was the sponsor and the Project was administered by the National Science Museum. The Administrator of the Project for Japan was Mr. Kyoshi Sugie, Director, National Science Museum, and assisting was Mr. Soichiro Tsuruta, Chief, Department of Programs at the Museum.

Four international conferences of the Project, two in each of the participating countries, were held in 1967, 1968, 1969 and 1970 to specify responsibilities, develop procedures, review progress and results, and set operational goals. At these conferences, it was agreed that the participating countries would, during each year of the Project, select, obtain, and ship to each other between 1,000 and 1,500 minutes of film. Although 16 millimeter was to be the predominant format, it was also agreed that some 8 millimeter cartridge films and $\frac{1}{2}$ " Sony video tapes should also be exchanged. Initially, the maturity level of the materials was to be at the secondary school level. The word "science" used to describe the content of the films exchanged was defined and interpreted broadly to include physical, biological, health, and applied technical science areas. At the outset of the Project, it was decided, however, that "social science" films would be excluded.



Over the ensuing years of the Project's existence, the maturity level was expanded to include some items at the elementary as well as the college and adult levels. The content areas of films selected for sending to Japan were enlarged to include items dealing with scientific methods applied to engineering, as well as films on the American Indian. The United States requested films in the additional areas of medicine, anthropology, archeology and social sciences. The breakdown of exchanged films was to be proportioned at about 20 percent cultural science films for general public audiences and 80 percent science films for classroom instruction.

During the three years this cooperative Project was in existence, the following number of media units were exchanged:

U.S.-Japan Science Film Exchange Project: Units of Media Exchanged 1967 - 1970

Country	16mm	Media Fo	ormat Videotape	Total Units Exchanged*	Total Running Time in Minutes
United States	193	63	9	265	4,048
Japan	133	. 36	11	180	3,664

*What appears to be a larger exchange contribution by the U.S. is due to the fact that United States science films tend, generally, to be shorter in length than the Japanese motion pictures, and because ASFA forwarded a larger number of 8mm cartridge films.

Commentary on the Selection of Exchanged Science Films

Each of the participating countries organized committees to review and select the films which were to be sent to the other country. The Japanese selected many of their films from the prize-winners at film festivals, as well as by utilizing the expertise of the selection committee members they had assembled. The United States used review committees, comprised of science specialists who met at the ASFA office, evaluative reports from the preview and screening programs of some university film libraries, as well as winning titles for Golden Eagle Awards by the Council on International Nontheatrical Events (CINE). Selections from both countries were based on a variety of factors--quality of presentation, technical quality, subject matter, maturity level of the media's intended viewing audience, and other "understandings" arrived at during the various Project conferences.



Evaluation Procedure

To determine the quality and usefulness of the Japanese science films for education in the United States, a two-phase evaluation program was initiated. In Phase I, the films were evaluated across the country, mainly by professionals at the higher education level--content specialists, audience level specialists, and audiovisual production specialists. The arrangements for these evaluations were made by persons, called coordinators, who had experience in audiovisual education, as well as science and science teaching. Phase II was designed to place these films in the hands of those in-the-field who could provide meaningful evaluation and reactions as to the strengths and weaknesses of the films for science education--science teachers and their students. This phase was limited only by the ability of ASFA to disseminate the films to potentially, as well as self-designated, interested science specialists. Primarily, this phase was designed to retrieve evaluative information from teachers and students who used these educational materials in an instructional setting.

To standardize the evaluations in Phase I and Phase II an evaluation form was developed. The first part of this form was used by the Phase I evaluation specialists and the Phase II science teacher. In addition, another set of questions—in the second part—was used by the Phase II science teacher and his students.

EFN

Availability

Plans are being made to house the collection of Japanese science films at an academic institution where they will be available for use. Persons interested in purchasing any of the films in this catalog should contact the Japanese producers directly.



A full explanation of this procedure and the initial findings may be obtained from the Educational Research Information Clearinghouse (ERIC) Report No. ED 049319, "The U.S.-Japan Science Film Exchange Project: An Interim Report" by Edward F. Newren, Research in Education. July, 1971, Vol. 6, No. 7.

²See Appendix One for a sample of the evaluation form.

Introduction to Organization of Catalog

Film Information

On pages 12 to 97 the titles, with descriptions and evaluative information, of films are given in one alphabetical listing. In the Subject Index, pages 6 to 11, the films are classified under broad but generally accepted headings, such as Agriculture, Life Sciences-Physiology, Physical Sciences-Astronomy. The descriptions of content are written in a concise and objective style which permits the reader to easily and quickly determine the nature and content of a film.

"Subject Area" and "Unit of Study" recommendations, as well as "Treatment" and "Audience Level" identification, are to be found in each film entry and should be helpful in suggesting uses for the film. The "Audience Level" identification suggests the range of probable use with the most appropriate level underlined when this was supplied by evaluation specialists.

The "Evaluation Section" provides the evaluative ratings of "Individual Production Elements," such as content, audience suitability, structure, picture, sound, and photo technique, as well as an "overall Rating" of the film as derived from the evaluations by the specialists in Phase I of the evaluation process. This section also includes teacher ratings on the "Usefulness of the film as a teaching material" and its "Appropriateness as a substitute for experiments or demonstrations," as well as the grade levels at which the film was used with students in the Phase II, in-the-field segment of the evaluation process.

Additionally, each of the evaluation specialists and evaluation team coordinators in the Phase I segment and each of the in-the-field evaluation sites in the Phase II segment of the evaluation process are identified with initials in the evaluation section of each film entry. The complete names of the evaluators, coordinators and evaluation sites are provided in Appendixes Two, Three and Four.

Alphabetization

The alphabetical arrangement of the catalog uses the typical library scheme for alphabetical organization. Short words, regardless of the first letter in the following word, are placed before longer words, for example, "Fish Habitats" is listed before "Fishing Net of the World." Such a system is called "word-byword" alphabetizing as contrasted with letter-by-letter alphabetizing. The articles "A," "An," and "The" are disregarded when they come first in the title but are considered when their location is within the title. Films in a series are listed alphabetically as individual titles rather than according to their sequence in the series under a series title. All titles are given in their English equivalents as translated from the original Japanese title found on the film.

Film Credits

Below each film title and format information, is given, when available, the name and address of the Japanese film producer. Also, when available, the producer's name is followed by the date of production.



h

Subject Heading List

AGRICULTURE

ARCHEOLOGY

ENGINEERING/TECHNOLOGY

HEALTH SCIENCES

LIFE SCIENCES

GENERAL

BOTANY

ECOLOGY

ENTOMOLOGY

MICROBIOLOGY

OCEANOGRAPHY/MARINE BIOLOGY

ORNITHOLOGY

PHYSIOLOGY

ZOOLOGY

PHYSICAL SCIENCES

ASTRONOMY

CHEMISTRY/BIO-CHEMISTRY

EARTH SCIENCES/GEOLOGY

MATHEMATICS

METEOROLOGY/CLIMATOLOGY

PHYSICS



Subject Index

AGRICULTURE	
Dairy Farming in the Mountains	6
ARCHEOLOGY	
Ancient Japanese Tombs	3
ENGINEERING/TECHNOLOGY	
Application of Oil Pressure	48890645690255735229357382



HEALTH SCIENCES

	Babies' Blood Types	15
	Children and Art	23
	Chromosomes of Man	23
	Fight Against Cancer	36
	From Monkey to Man: How Man has Evolved	42
	Human Rody T.	
	The Bloodstream	48
	Bones of the Body	48
	The Digestive Organs	49
	Heart and Circulatory System	49
	Structure of Joints	50
	Structure of the Ear	50
	Wanner Deday TTe	-
	Function of the Lungs	51
	The Kidney	51
	Muscles that Move Bones	52
	Perspiration	52
	Structure of the Eye	53
	Inflammation: How and Why	55
	Poem of the Young Hearts	78
	Poem of the found hearts	•
LIFE	SCIENCES	
	GENERAL .	
	Nature in Hokkaido	71
	Nature in Hokkaido	87
	Springtime	~ ,
	BOTANY	
		20
	Changes in Plant Communities	28
	Deal June Macon and 'Wargreen Trees	
	Ferns	رر راء
	Undananias	・フャ
	Thomsonic Nutrition of Plants	フ
	Dhotographedia	10
	Plenkton in Swamps and Lakes	10
	Plants and Their Evalution	
	Diente of Noon Heighton,	
	Standture and Cermination of Kice Secus	. 05
	The Sun and Plants	ול
	ECOLOGY	
		7 6
	A Beautiful Country	70
	Challenge of Refuse	
	Changes in Plant Communities	, C
	Changing Coastlines	۱ ۲ ۱



ECOLOGY (continued)

	rish farming in Japan:
	Building the Future Fishing Grounds
	Improvement of the Environment for Fish
	The boundary of the manufacture of the state
	Fish Habitats
	Forest
	Industrial Uses of Microorganisms5
	Plankton in Swamps and Lakes
	Plants of Nasu Heights
	Undersea Meadows9
	Whaling in the Antartic Ocean9
ENTO	OLOGY
	1
	The Cabbage Butterflyl
	Grasshoppers4
4.2	Insect Bodies
	Insect Pests of Rice Plants5
	Insects in Mountain Streams5
	Leaf-Rolling Weevils6
	Mosquito6
	Science of Silk8
	Secret in the Hive8
	The Study of Crickets9
MICRO	BIOLOGY
	Industrial Uses of Microorganisms5
	Selected Lactobacillus Acidolphilus8
	Yeast9
OCEA	OGRAPHY/MARINE BIOLOGY
	Biological Sketch of the Sea
	A Crab's Life2
	Fish Farming in Japan:
	Building the Future Fishing Grounds3
	DUITUIN ONE PROUITE PERMINE GLOUNGS
	Improvement of the Environment for Fish
	Fish Habitats3
	Fishing Net of the World3
	Undersea Meadows/9
	Whaling in the Antarctic Ocean9
	marring in the Antonious occumentation, and the second
ORNI	HOLOGY
	Birds in Winter - I
	birds in winder - 1
	Birds in Winter - II
	Life of Water Birds
	Raicho: Japanese Ptarmigan8



PHYSIOLOGY

	The Blood Stream	13402
	The Frog	712
PHYS	ICAL SCIENCES ASTRONOMY	
	Development of X-Ray Astronomy	:9 :5
	CHEMISTRY/BIO-CHEMISTRY	
	Chemical Equilibrium. Chemical Reaction and Temperature. Chemistry in Nature. Chemistry of Solution. Colloid. Crystallization of Savour. Crystals of Snow. How Things Burn. Liquids - I.	22 25 27 27 27
	Liquids - II. Matter and Its States: Liquids - Dissolving, Melting. Molecules and Atoms. The Nature of Gases. The Nature of Liquids. Solids I. Solids II., Recrystallization. Mechanism of Life. Movement of Molecules. Property of Gases. Solution. Speed of Chemical Reactions When you Mix - See What Will Happen.	6566668888
		- ~

EARTH SCIENCES/GEOLOGY

	An Approach to Prediction of Earthquakes. A Beautiful Country. Changing Coastlines. Expedition to the Antarctic Pole. Geological Structure and Crust Movements. Igneous Rock. Moraine Mountain Changes. Movement of the Earth. National Parks of Japan. Ore Deposits.	.1 .2 .3 .4 .5 .6 .6 .7 .7
MATHE	MATICS	
•	Discovery of Zero	.4
METEO	PROLOGY/CLIMATOLOGY	
	Clouds Crystals of Snow The Origin of Rain Torrential Rains Weather Forecasting for Tomorrow	·27 •74 •93
PHYSI	CCS .	
	Accelerated Motion. Adhesion. Circular Motion. Computer Simulation of Order-Disorder Phenomena. Deformation and Drag of Body. Diffraction. Discharge. Electron Microscope. Electron Movement in the Tube. Energy. Energy and Water. Evaporation. Force and Movement.	12 24 29 30 32 32 33 34 39
	Frictional Electricity	40 41 58 58



PHYSICS (continued)

Momentum	, 67
Annual Control of the Dead Annual Control of the Co	70
Novement of the Pendulum	77
Observation of Boiling	13
Oscillation	.74
Parabolic Motion	15
Phenomenon of Wetting	. 75
Polarization of Light	.78
Principle of Alternating Current Motor	•79
Radio Waves	.80
Semiconductors	.84
Structure of Materials	.90
Things and Their Weight	.91
Wave	.94
Wave Motion. \	.95
X_Ray and the Crystal	.97
X_RAV AND THE UTVSTAI	・ノ゛



Film Descriptions and Evaluations

ACCELERATED MOTION	
VTR 2", Sony, 20 minutes, b & w, English nerration	/
Producer: NHK International, Tokyo, Japan	Date: Not available
Subject Area: Physics	Unit of Study: Motion (acceleration)
to acceleration. Utilizes a race between a superimposed over the picture to provide vis	otion with emphasis on distance and velocity and their relationship car and a man with an electronically formed acceleration curve uel clarification of the basic problems presented. Uses still o clarify and reinforce concepts of acceleration.
Treatment: Illustrated lecture	Audience Level: SH
Phase I - Specialist Evaluation:	
Evaluation Team: WHE, EFN, CB	Team Coordinator: SG
Rating of Individual Production Elements:	
Content	Picture
Overall Rating: Fair	
area. English dub is too literal	but presents information which requires basic understandings in this and sound sync is not good. Verbal pauses make this a very smaturis is distracting. Attempts to cover too much material and would not currently being used in the U.S.
	•
	,
ADHESION	
1cmm, 27 minutes, color, Japanese narration, accompany	ing English printed script.
Producer: Gakken Co., Kamiikedai 4-40-5, Ota-Ku, Tokyo	
Subject Area: Physics	Unit of Study: Adhesion
Content: Demonstrates impact of adhesives on society, superiority of an adhesive. Explains the ro	Shows various ways of attaching materials to each other and the le of science and industry in producing superior adhesives.
Treatment: Factual lecture utilizing animation and move Uses close-ups and photomicrography.	dels. Audience Level: JH, SH, College-Undergrad., Adult-Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: JCB, LW, DB	Team Coordinator: EJE
Rating of Individual Production Elements:	<i>;</i>
Content3\ Auddence Suitability5\ Structure4	Picture
Overall Rating: Good	
Comments: Would be excellent if narrated in use the old glues, but try the ne track seriously limits usefulness	w glues." Good continuity, photography and color. Sapanese Sound
Phase II - In-the-Field Evaluation:	
Evaluation Site: GRM, SI	Grøde Level: 8, 12
Teacher Ratings:	
Overall Estimate of Films Value Usefulness as a Teaching Material Appropriateness as Substitute for Exper	iments or Demonstrations3



. 16 12 ANCIENT JAPANESE TOMBS 16mm, 30 minutes, color, Japanese narration, accompanying English printed script Producer: Gakken Co., Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan Subject Area: Archeology Unit of Study: Japan, Far East Content: Depicts the ancient tombs, or Kofuns, and other burlal mounds found in various parts of Japan. Shows funeral objects such as jewelry, clay images, folk art products, pottery, and weapons buried with the dead in these tombs. Demonstrates that death was celebrated with a zest found among people who love life. Treatment: Illustrated lecture Audience Level: SH, College-Undergrad., Grad., Adult-Gen. Phase I - Specialist Evaluation: Evaluation Team: LGH, MSF Team Coordinator: MSF Rating of Individual Production Elements: Picture.....4 Audience Suitability.....4 Sound.....na Photo Technique......4 Structure.....4 Overall Rating: Good Comments: Excellent cinematic overview of a static subject; a creative presentation with good camera work. Film could be improved for U.S. audiences by editing to a shorter length, e.g., 15-20 minutes. APPLICATION OF OIL PRESSURE 16mm, 22 minutes, color, Japanese narration, accompanying English printed script Producer: Cinesell Japan, Inc., Akasaka 1-9-15, Minato-ku, Tokyo, Japan Unit of Study: Basic Theory of Hydraulics Subject Area: Hydraulics Content: Introduces the many uses of hydraulic oil pressure to help man do his work. Demonstrates the hydraulic principle with models. Audience Level: SH, College-Undergrad. Treatment: Factual analysis using models Phase I - Specialist Evaluation: Team Coordinator: EJE Evaluation Team: HP, PCM, DB Rating of Individual Production Elements: Picture.....4 Sound.....na Audience Suitability.....3 Photo Technique.....4 Structure......3 Overall Rating: Average Comments: Some good sections, but lacks depth for post-high school vocational training. Too many scenes of the merry-go-round rising and lowering; could be reduced. Scene of train stopping should have shown some of the stopping mechanism. Scene with machine lathe following pattern is hard to figure out; animation might have been helpful here, as with the pump scene. In the pump scene, the large and small persons being equalized did not show the advantage of the hydraulic pump. The element of time should also be introduced. The boat shown is not a hovercraft, but a hydrafoil. The English script did not seem to follow the film - there were written explanations not found in the film, and there were scenes not explained in the script. explained in the script. Phase II - In-the-Field Evaluation:

Evaluation Site: SI

Grade Level: 12

Teacher Ratings:

Overall Estimate of Film's Value......3 Usefulness as a Teaching Material......3 Appropriateness as Substit to for Experiments or Demonstrations......2



AN APPROACH	TO PREDICTION OF EARTHQUAKES	
16mm, 30 min	utes, color, English narration	
	wenami Productions, Inc., Misaki-cho 2-21-2 hiyoda-ku, Tokyo, Japan	Date: 1967
Subject Area	: Geology and Geophysics	Unit of Study: Earthquakes and Geophysics
me	esents the methods and equipment used by scientists to pry be used to foretell great earthquakes. Follows the strushiro, Japan, with its resultant destruction.	redict earthquakes. Explains how micro earthquakendy and prediction of a major earthquake at
	Illustrated lecture utilizing close-ups, animation and models.	Audience Level: Int, JH, SH, College-Undergrad. Grad., Adult-Gen.
Phase I - Sp	ecialist Evaluation:	
Ev	aluation Team: ARM, HRB, WT	Team Coordinator: EJE
-Ra	ting of Individual Production Elements:	•
	Content	Picture
Ov	erall Rating: Excellent	
Co	mments: Accurate but oversimplified. Should provide muc general audiences. Somewhat deficient in introd description of certain important features of ear might be objection to the rate of movement of the	ductory explanation of basic principles. No thinguakes, such as types of wave motion. There
Phase II - I	n-the-Field Evaluation:	<i>i</i>
Ev	aluation Site: GRM	Grade Level: 7,8
	Overall Estimate of Film's Value	2
	•	
AUTOMATION-	•	
16mm, 27 min	nutes, b & w, Jspanese narration, accompanying English prin	
	wanami Productions, Inc., Misaki-cho 2-21-2, hiyoda-ku, Tokyo, Japan	Date: 1961
Subject Area	: Machinea, automation	Unit of Study: Machines with feedback systems, automatic control.
có	ows through demonstration and time-lapse photography, the introl machines. Presents examples of simple devices, sucomplex feedback systems in oil refinery and steel mill open	th as heaters with thermostats. Demonstrates
Treatment;	Illustrated lecture utilizing diagrams, demonstrations, close-ups, and time-lapse photography	Audience Level: Int, JH, SH
Phase I - Sp	ecialist Evaluation:	
Ev	valuation Team: ABB, FS, EHS	Team Coordinator: GRB
Re	ting of Individual Production Elements:	
	Content4 Audience Suitability3 Structure3	Picture

Comments: Machines (electric heaters) appeared old, and conditions of use in homes do not typify U.S. uses. Moved slowly. Demonstration sequences adequate. Film might be more beneficial for U.S. use if broken into smaller instructional units, i.e., thermostat control, bi-metal switch, etc.



Overall Rating: Poor

BABIES' BLOOD TYPES	
16mm, 30 minutes, color, Japanese marration, accompanying English	printed script
Producer: Gakken Co., Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan	Date: 1967 .
Subject Area: Biology, Health	Unit of Study: Hematology - blood grouping; Circulation System
who lost five infants until blood mismatch was discovered cure the sixth infant's blood problem. Explains the meet when adults of different types give birth to infants.	in the parents and shows the hospital treatment to
Treatment: Case study approach utilizing animation, close-up and photomicrography techniques.	Audience Level: SH, College-Undergrad., 'Adult-Gen.
Frase I - Specialist Evaluation:	
Evaluation Team: MFW, BM, HML	Teem Coordinator: DG
Rating of Individual Production Elements:	
Content	Picture4 Soundns Photo Technique3
Overall Rating: Average	1
Comments: The case history approach may restrict the use discussed in the film, this may be misleading	
Phase II - In-the-Field Evaluation:	× ,
Evaluation Site: PA, PHI	Grade Level: 10, 12
Teacher Ratings:	
Overall Estimate of Film's Value	2
A BEAUTIFUL COUNTRY	,
item, 4/ minutes, color, English narration	,
Frodier: Tokyo Cinema Co., Kanda Surugadai 2-1, Chiyoda-ku, Tokyo, Japan	Date: 1964
Co. " Aren: Geology	Unit of Study: Land Formation, Mountain Building, Orogeny
entent: Provides a comprehensive took at numerous mountains in Justablishes the volcanic origins of the many islands and mountainous regions. Traces the geologic development of nating uplift and subsidences of the land in Japan and subsidences of the land appeared when partially submerged while under	mountains through an overview of typical island and the area through drawings which illustrate the alter- upplements these with scenes of regions which are shown
Trestment: Illustrated lecture	Audience Level: JH, SH, College-Undergrad.
Pages I - Specialist Evaluation:	
Enduation Team: NB, DRG, WC	Team Coordinator: APM
Pating of Individual Production Elements:	
Content	Picture4 Sound3 Photo Technique4
' Crerall Pating: Good	
approach so the topic would be of interest to eruptions and volcanic activity are of general especially shocking sinceone generally considenced for villages to be built in them. Interest general gen	th of film becomes boring. It has an intercultural any geology student. Several close-ups of magmatic linterest. The unusual size of one caldera is ears volcanic mouths to be rather smallnot large erest may be limited to those with interest in ent's view or a potential visitor to Japan, the build be used, if shortened, as a case study for
Phase II - In-the-Field Evaluation:	
Evaluation Site: GFM, SPM	Grade Level: 8,9,11
Teacher Ratings: Overall Estimate of Film's Value	
Usefulness as a Teaching Material	

ERIC Full text Provided by ERIC

BIOLOGICAL SKETCH OF THE SEA

16mm, 40 minutes, color, Japanese narration, accompanying Japanese printed script

Producer: Seibutsu Eiga Kenkyujo, Marunouchi 3-3-1,

Shin-Tokyo Bldg., Chiyoda-ku, Tokyo, Japan

Date: 1968

Subject Area: Biology

Unit of Study: Marine Biology, Ecology

Content: Portrays rocky coasts, small bays, islands, and tidal pools. Shows clusters of barnacles, marine clams, worms, slugs, snails, sea amenemes, jelly fish and various types of coral. Depicts in closeup the small, separate animals in coral formations and their feeding activities. Features, in the latter part of the film, the multiplication, feeding and growth of individual and colonial coelenterates.

Treatment: Illustrated lecture, employing underwater close-up

Illustrated lecture, employing underwater close-uphotography and photomacrography

Audience Level: Int., JH, SH, College-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team: PW, WK, JN

Team Coordinator: WSt

Rating of Individual Production Elements:

 Picture
 4

 Sound
 na

 Photo Technique
 4

Overall Rating: Good

Comments: Excellent photography of marine animals of various sizes, including coral, jelly fishes, barnacles, crustacea and marine annelids. A beautiful art film. Lack of script in English seriously limits usefulness of film for U. S. students. Film could be shortened by csreful editing.

BIRDS IN WINTER - I

8mm, regular, Technicolor cartridge, 3 minutes, color, silent, accompanying English printed script.

Producer: Not available

Date: Not available

Subject Area: Biology

Unit of Study: Natural History, birds

Content: Demonstrates the difference between summer and winter birds. Explains the large scale movements and the small scale wandering movements of birds. Shows specific examples of Swan, Teal, Dusky Mallard, Mandarin Duck, Dusky Ouzel, Redstart, Bulbul, and Japanese Nightingale.

Treatment: Documentary

Audience Level: Mid., Int., JH

Phase I - Specialist Evaluation:

Evaluation Team: HW, PT, RW, DB

Tesm Coordinator: EJE

Rating of Individual Production Elements:

 Overall Rating: Fair

Comments: Too short and brief. Covers too much ares, considering time and length of film.



HIRDS, IN WINTER - II	
8mm, regular, Tachnicolor cartridge, 3 minutes, color, silent, according	mpanying English printed script.
Producer: Not available	Date: Not available
Tubject Area: Biology	Unit of Study: Natural History, birds
Content: Shows examples and movements of birds which do not migrat Gray Starling, Sparrow, Parris Major, Temmick Schlegel, R	e. Presents specific examples such as Blue Magpie, ed Woodpecker, and White Crane.
Treatment: Documentary	Audience Level: Mid., Int., JH
Phase I - Specialist Evaluation:	•
Evaluation Team: HW, PT, RW, DB	Team Coordinator: EJE
Rating of Individual Production Elements:	
Content	Picture4 Soundna Photo Technique3
Overall Rating: Fair	
Comments: Too short and brief. Covers too much area, co	nsidering time and length of film.
	•
THE BLOOD STREAM	commensing English printed script
8mm, regular, Technicolor cartridge, 3 minutes, color, silent, acc	Date: Not available
Producer: Gakkyu Films, 246 Kami-Ikenoue, Ota-ku, Tokyo, Japan	Unit of Study: Physiology
Subject Ares: Biology	
Content: Depicts through close-up live photography the blood flow and foot membranes of a frog.	w Enrough capitizates in ear of a facoto, cast of a manager
Treatment: Cartoon-style	Audience Level: Int. JH, SH
Phase I - Specialist Evaluation:	, <
Evaluation Team: IGH, MSF	Team Coordinator: MSF

Overall Rating: Fair

Rating of Individual Production Elements:

Comments: Higher magnification should have been used in photographing capillary circulation since individual blood cells could not be seen. Scenes were generally too short and some were somewhat fuzzy.

Picture.....2

Sound.....na
Photo Technique.....2



10mm, 35 minutes, color, English narration	i la
Producer: The Nippon Eige Shinsha, Ltd. Kami-Osaki 2-10-17, Shinagawa-ku, Tokyo, Japan	Date: 1963
Subject Area: Engineering/Technology	Unit of Study: Hydroelectricity
Content: Shows the construction of two power station dams. Depicts provide electrical power. Informs about how and why the d	
Treatment: Documentary utilizing animation and illustrated lecture techniques	Audience Level: Int., JH, SH, College-Undergrad. Adult-Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: PL, LG, VRT	Team Coordinator: VRT
Rating of Individual Production Elements:	, ·
Content	Picture
Overall Rating: Good	•
Comments: An interesting, entertaining, informative, but	non-technical film.
•	
	,
,	
	•
	•
BLUEPRINTS IN MODERN INDUSTRY	
16mm, 26 minutes, b & w, Japanese narration, accompanying English pr	inted script
Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan	Date: 1961
Subject Area: Industrial Design	Unit of Study: Production Design, Automotive
Contant: Develops the importance of blueprints, drawings, and plans development from plan to finished product in constructing a view", "lateral view", "ground-plane", and patents.	
Treatment: Documentary, illustrated lecture utilizing on-location demonstrations, models, and close-up photography	Audience Level: SH, College-Undergrad.
Phase I - Specialist Evaluation:	•
Evaluation Team: DP, JFG, DB	Team Coordinator: EJE
Rating of Individual Production Elements:	
Content	Picture

Comments: The colored background is poor -- it needs more contrast. Difficult to follow film, due to sequence and speed, which is necessary to glesn respective information from script. Initially, a good commentary on non-verbal communication, interface studies relating similarities in the design of many mon-made objects. Film gets bogged down in legalistic aspects of industry which detracts from the original focus. Unsuitable bound track: instead of classical music, needs on-location sounds of engines running and machines clanking, to give better sense of what is involved.



Overall Rating: Fair

BLUE LAKE

THE CABBAGE BUTTERFLY	•
16mm, 27 minutes, color, Japanese narration, accompanying Englis	h printed script
Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan	Date: 1968
Subject Area: Biology	Unit of Study: Entomology
Content: Provides a photographic analysis of behavior of the ca such as slow-motion and time-lapse recordings, and ult	bbage butterfly. Employs special research camera techniques ra-violet illumination.
Treatment: Illustrated lecture using time-lapse, high-speed and close-up photography	
Phase I - Specialist Evaluation:	
Evaluation Team: LPG, PWW, CWR	Team Coordinator: LPG
Rating of Individual Production Elements:	
Content4 Audience Suitability3 Structure2	Picture
Overall Rating: Average	•
Comments: A good presentation demonstrating methods o specialized audiences. Some sequences are Title is misleading: the presentation coul mating behavior. Special attention is paid	too long and the film could be improved through editing. d be two films, one on research on feeding, and one on
CHALLENGE OF REFUSE	
16mm, 29 minutes, color, Japanese narration, accompanying English	printed script
Producer: Cinesell Japan, Inc., Akasaka 1-9-15, Minato-ku Tokyo, Japan	Date: 1968
Subject Area: Ecology, Public Health	Unit of Study: Conservation, Pollution Control, Waste Disposal
Content: Illustrates the volume and scope of waste disposal in Jand along the coast, now incinerators are utilized for waste to cause minimal air pollution. Depicts products compressing large objects which have been discarded.	providing energy to heat water, and a process of burning
Treatment: Live action and animation	Audience Level: Int., JH, Adult-Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: TW, GB, HML	Team Coordinator: DG
Rating of Individual Production Elements:	,
Content	Picture4 Soundne Photo Technique4
Overall Rating: Good	
Comments: Good film not only for content, but for reversing travel or other documentary films of this explored makes the film a unique source that	aling cultural sapects of a foreign country not often seen sort. The fact that specific Japanese problems are may limit its usefulness in the U.S.
Phese II - In-the-Field Evaluation:	
Evaluation Site: WM	Grade Level: 5
Teacher Ratings:	•
Cverall Estimate of Film's Value Usefulness as a Teaching Material Appropriateness as Substitute for Experiments or De	



CHANGES IN PLANT COMMUNITIES	
16mm, 22 minutes, color, Japanese narration, accompanying English	sh printed script
Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1968
Subject Area: Biology, Ecology	Unit of Study: Plant Succession
Content: Shows how plants interact with their surroundings. D	epicts how a grassy plain changes into a forest.
Treatment: Factual analysis	Audience Level: SH, College-Undergrad, Grad.,
Phase I - Specialist Evaluation:	Adult-Special or Prof., Teacher Edu
Evaluation Team: JCRo, RHi, JG	Team Coordinator: JCRo-
Rating of Individual Production Elements:	
Content	Picture
Overall Rating: Average	•
Comments: The same concepts are covered in U. S. film	us of equal quality.
Phase II - In-the-Field Evaluation:	•
Evaluation Site: FCV	Grade Level: 9, 10
Teacher Ratings:	
Usefulness as a Teaching Material	Demonstrations4
CHANGING COASTLINES 16mm, 32 minutes, color, English marration	
Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan	Date: 1964
Subject Area: Geology, Geography, Land Usage	Unit of Study: Land Expansion, Land Conservation
Content: Shows engineering projects designed to protect and deve and wave-producing machinery were utilized to study the cusses the actual construction of tetrapod breakvaters and reclaiming land for delta farming and industrial pa	forces which erode cosstsl land. Describes and dis- and jettles to permit dredging herbors on sandy beaches,
Treatment: Analysis of projects presented in close-ups and underwater photography	Audience Level: Int., JH, SH, College-Undergrad., Adult-Special or Prof.
Phase I - Specialist Evaluation:	
Evaluation Team: APM, DRG, WRV	Team Coordinator: PWB
Rating of Individual Production Elements:	
Content4 Audience Sultability4 Structurek	Picture4 Sound3 Photo Technique4
Overall Rating: Good	
lacked quality. The example of the jetty und	as well as method of presentation, but English sound track der construction was excellent. Actual construction natrated. This film seems to cover too much in the length
Phase II - In-the-Field Evaluation:	
Evaluation Site: SPM, SI, M4	Grade Level: 5, 8, 9, 10, 11, 12
Teacher Ratings:	

ERIC AFULL TEXT PROVIDED BY ERIC

16mi, 22	minutes, color, Japanese narration, accompanying En	glish printed script.
Producer:	: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1964
-	Area: Chemistry	Unit of Study: Chemical Equilibrium
Content:	Defines chemical equilibrium. Explores how equili- or time. Introduces concepts pertaining to indust	brium can be upset by temperature, chemical properties, pressur risl manipulation.
Treatment	t: Illustrated lecture utilizing close-ups, models and animation.	Audience Level: SH, College-Undergrad.
Phase I -	- Specialist Evaluation:	
	Evaluation Team: GC, DMo, DMy	Team Coordinator: GRB
•	Rating of Individual Production Elements:	
	Content	Picture
	Overall Rating: Fair	
	Comments: Technically wrong where it does not sho may introduce incorrect concepts. It i shown in their natural habitat. Incons	w competing reactions during shifts in equilitrium. Animation s unfortunate that ammonia sulfate and urea crystala are not istent quality in animation.
Phase II	- In-the-Field Evaluation:	
	Teacher Ratings:	
	Overall Estimate of Film's Value	
-		. ,
7		
•		
	REACTION AND TEMPERATURE	
	REACTION AND TEMPERATURE minutes, color, Japanese narration, accompanying pr	inted script and audiotape cassette in English
10mm, 14	<u></u>	inted script and audiotape cassette in English Date: 1967
romm, 14	minutes, color, Japanese narration, accompanying pr	
romm, 14 Producer: Subject A	minutes, color, Japanese narration, accompanying pr : Ivenami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan drea: Chemistry, Physics	Date: 1967 Unit of Study: Chemical Reactions, Thermodynamics ar reactions and temperature. Uses charcoal as example to
romm, 14 Producer: Subject A	minutes, color, Japanese narration, accompanying pr : Ivenami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan drea: Chemistry, Physics Expisins relationships between chemical or molecular show kinetic motion of molecules in gas, reaction	Date: 1967 Unit of Study: Chemical Reactions, Thermodynamics ar reactions and temperature. Uses charcoal as example to
room, 14 Producer: Subject A Content: Treatment	minutes, color, Japanese narration, accompanying pr : Iwenami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Area: Chemistry, Physics Explains relationships between chemical or moleculation kinetic motion of molecules in gas, reaction ture chemical-physical states. :: Models, color and close-ups used to present	Date: 1967 Unit of Study: Chemical Reactions, Thermodynamics ar reactions and temperature. Uses charcoal as example to rate of molecules, bands. Demonstrates the effects of temperature of molecules.
room, 14 Producer: Subject A Content: Treatment	minutes, color, Japanese narration, accompanying pro- Ivenami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Irea: Chemistry, Physics Expisins relationships between chemical or moleculation kinetic motion of molecules in gas, reaction ture chemical-physical states. Hodels, color and close-ups used to present change states.	Date: 1967 Unit of Study: Chemical Reactions, Thermodynamics ar reactions and temperature. Uses charcoal as example to rate of molecules, bands. Demonstrates the effects of tempera
roum, 14 Producer: Subject A Content: Treatment	minutes, color, Japanese narration, accompanying proceedings of Iwanami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Grea: Chemistry, Physics Expisins relationships between chemical or moleculation with kinetic motion of molecules in gas, reaction ture chemical-physical states. : Models, color and close-ups used to present change states. Specialist Evaluation:	Unit of Study: Chemical Reactions, Thermodynamics ar reactions and temperature. Uses charcoal as example to rate of molecules, bands. Demonstrates the effects of tempera-
romm, 14 Producer: Subject A Content: Treatment	minutes, color, Japanese narration, accompanying pr : Ivenami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan drea: Chemistry, Physics Expisins relationships between chemical or moleculation kinetic motion of molecules in gas, reaction ture chemical-physical states. :: Models, color and close-ups used to present change states. Specialist Evaluation: Evaluation Team: ABB, DMy, WB	Unit of Study: Chemical Reactions, Thermodynamics ar reactions and temperature. Uses charcoal as example to rate of molecules, bands. Demonstrates the effects of tempera Audience Level: JH, SH, College-Undergrad.
roum, 14 Producer: Subject A Content: Treatment	minutes, color, Japanese narration, accompanying pr Ivenami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Area: Chemistry, Physics Expisins relationships between chemical or molecul show kinetic motion of molecules in gas, reaction ture chemical-physical states. Models, color and close-ups used to present change states. Specialist Evaluation: Evaluation Team: ABB, RMy, WB Fating of Individual Production Elements: Content	Unit of Study: Chemical Reactions, Thermodynamics ar reactions and temperature. Uses charcoal as example to rate of molecules, bands. Demonstrates the effects of temperature and temperature. JH, SH, College-Undergrad. Team Coordinator: GRB Picture
room, 14 Producer: Subject A Content: Treatment	minutes, color, Japanese narration, accompanying pr : Ivenami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan drea: Chemistry, Physics Expisins relationships between chemical or moleculation kinetic motion of molecules in gas, reaction ture chemical-physical states. : Models, color and close-ups used to present change states. Specialist Evaluation: Evaluation Team: ABB, DMy, WB Pating of Individual Production Elements: Content	Unit of Study: Chemical Reactions, Thermodynamics are reactions and temperature. Uses charcoal as example to rate of molecules, bands. Demonstrates the effects of temperature of molecules. JH, SH, College-Undergrad. Team Coordinator: GRB Picture
round, 14 Producer: Subject A Content: Treatment Phase I	minutes, color, Japanese narration, accompanying pr : Ivenami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan drea: Chemistry, Physics Explains relationships between chemical or moleculation kinetic motion of molecules in ges, reaction ture chemical-physical states. :: Models, color and close-ups used to present change states. :: Models, color and close-ups used to present change states. :: Specialist Evaluation: Evaluation Team: ABB, DMy, WB Fating of Individual Production Elements: Content	Unit of Study: Chemical Reactions, Thermodynamics are reactions and temperature. Uses charcoal as example to rate of molecules, bands. Demonstrates the effects of temperature of molecules. JH, SH, College-Undergrad. Team Coordinator: GRB Picture



Tenning To inger

CHEMISTRY IN NATURE

16mm, 17 minutes, color, Japanese narration, accompanying English printed script

roducer: Iwansmi Productions, Inc., Misski-cho 2-21-2, Chiyoda-ku, Tokyo, Japan	Date: 1909
ubject Area: Chemistry, Geology, Biology	Unit of Study: Chemical Composition
ontent: Introduces, through an analysis of the chemical composition of chemicals. Examines unusual chemical deposits that evanalysis.	
reatment: Illustrated lecture, using models, close-ups and time- lapse photography	Audience Level: Int., JH, SH, College-Undergrad.
hase I - Specialist Evaluation:	
Evaluation Team: RJJ, JM, RG	Team Coordinator: GRB
Rating of Individual Production Elements:	
Content4 Audience Suitability3 Structure	Picture
Overall Rating: Average	
Comments: Good use of models in film. Simulation of nate excellent. Some experiments seem to be incluration than factual data consistent with film	led for dramatic effect (e.g., flower decolorization)
	,
HEMISTRY OF SOLUTION	•
6mm, 14 minutes, color, Japanese narration, accompanying printed	script and audiotape cassette in English
Producer: Gakken Co., Kamiikedai, 4-40-5, Ota-ku, Tokyo, Japan	Date: 1967
Subject Area: Chemistry	Unit of Study: Chemical Solutions
content: Shows the physical and chemical characteristics of solution determine these characteristics. Demonstrates different polarized light.	ions and non-solutions. Uses simple experiments to lation through the use of heat, dyes, liquids, and
reatment: Factual analysis using demonstrations, animation, time-lapse, polarization, and photomicrography	Audience Level: JH, SH, College-Undergrad.
hase I - Specialist Evaluation:	•
Evaluation Team: DPo, RN, RD	Team Coordinator: RD
Rating of Individual Production Elements:	
Content4 Audience Suitability4 Structure3	Picture
Overall Rating: Good .	,
Comments: Too many concepts. There is poor integration There are many experiments often appearing to experiments. Photo techniques and photo quali translation to be effective as a teaching film	have little relationship to the previous or upcoming ity excellent, making this s good film. Needs English
hase II - In-the-Field Evaluation:	-
Evaluation Site: PHI, OPI	Grade Level: 10, 11, 12
Teacher Ratings:	•
Overall Estimate of Film's Value	
26	



CHILDREN	AND ART	
16mm, 35	minutes, color, Japanese narration	
Producer:	: Hanabusa Motion Picture Co., Yaesu 5-5, Chuo-ku, Tokyo, Japan	Date: 1969
Subject A	Area: Psychology	Unit of Study: Instruction of Children
Content:	Examines the role of drawing in the mental growth of meaning of drawing through which he develops his stu	children. Presents a village teacher who teaches the true dents' powers of observation.
Treatment	t: Documentary with demonstration of techniques	Audience Level: Pri., Mid., Int., JH, Adult- Teacher Educ.
Phase I	- Specialist Evaluation:	· •
	Evaluation Team: BD, PW, JN	Team Coordinator: WSt
	Rating of Individual Production Elements:	
 • •	Content	Picture5 Soundna Photo Technique4
	Overall Rating: Good	
٠	concepts, and entertaining. This is an	on between pictures and sketches. Well organized, interesting it film" in itself. Music may be monotonous to some
-	listeners.	` . G
		•
		* · · · · · · · · · · · · · · · · · · ·
	/	
		•
	0	
CHROMOSOMI	es of Man	
16mm, 20 1	minutes, color, English marration	
Producer:	Tokyo Cinéma Co., Inc., Kanda Suragadai 2-1, Chiyoda-ku, Tokyo, Japan	Date: 1966
Subject A	rea: Biology	Unit of Study: Man, Human Heredity
	must be such and time of abnormationed in the nor	mal human. Compares these chromosomes to the number and rangements of chromosomes in human beings. Illustrates ography to show this inspection.
Treatment	: Illustrated lecture using time-lapse and photomicrography	Audience Level: JH, SH, College-Undergrad., Grad.
Phase I -	Specialist Evaluation:	
	Evaluation Team: RLW, DRG, JT	Team Coordinator: WRV
	Rating of Individual Production Elements:	•
•)	Content	Ficture
	Overall Rading: Excellent	,
	Comments: Negative value and reactions to the mixing	of color and black and white footage.
Phase_II	- In-the-Field Evaluation:	
	Evaluation Site: MM	Grade Level: Senior High



Teacher Ratings:

CIRCULAR MOTION

VTR 3". S	Sony, 20 minutes, b & w, English narration	هونق. -	
	Not available	Pate: Not available	
Subject A	rea: Physics	Unit of Study: Mechanics	
Content:	Presents bodies in circular motion to show that the intens mass of the body, the radius and the angular velocity rais use of dry ice, tethered springs and weights and strobe ph demonstrations.	ed to the second power. Depicts principle throu	gh
Treatment	: Demonstration lecture	Audience Level: SH, College-Undergrad.	
Phase I -	Specialist Evaluation:	•	
	Evaluation Team: CB, RKH, WHE, EFN	Team Coordinator: SG	
	Rating of Individual Production Elements:	•	
	Content	Picture	
,	Overall Rating: Fair		
•	Comments: Film medium should not be used for presenting a Segments of film could be used effectively in a		in,
16mm, 18	on of BLOOD minutes, color, Japanese narration, accompanying printed scr Gekken Co., Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan	ript and audiotspe cossette in English Date: 1967	
Subject A	rea: Physiology	Unit of Study: Circulation, Comparative Anatom	Ŋ
Content:	Reviews the similar characteristics and functions of animal circulatory system of the lower animal forms: sea squid, f types of circulatory systems, "open" and "closed" using disworking of the heart muscle, and shows experiments with the and autonomic nervous systems.	ish, frog and lubster; and describes the two maj section and simple experiments. Discusses the	or
Treatment	: Factual development, using close-ups, animation and photomicrography	Audience Level: SH, College-Undergrad., Grad.	
Phase I -	Specialist Evaluation:		
	Évaluation Team: JS, DPo, RD	Team Coordinator: RD	
	Rsting of Individual Production Elements:	•	
	Content	Picture 5 Sound na Photo Technique 5	
	Overall Rating: Good		
	Comments: Specific techniques of experiments are impressive and superficially for any audience. Could have systems to strengthen content development.	e. Subject matter is covered too broadly included animation of comparative circulatory	
Phase II	- In-the-Field Evaluation:		
	Evaluation Site: EM	Grade Level: 10, 11, 12	
	Teacher Ratings:		
	Usefulness as a Teaching MaterialAppropriateness as Substitute for Experiments or Demon	strations4	

ERIC

Full Text Provided by ERIC

717	α	TV.

VTR 2" Sony, 20 minutes, b & w, English narration

Producer: NHK International, Tokyo, Japan

Date: Not available

Subject Area: Neteorology

Unit of Study: Clouds

Content: Discusses clouds and their composition, forms, and formations. Presents a fast-moving children's science show which uses four television monitors ("Four Eyes"), each representing a different type of vision (microscopic, naked eye, mind's eye, drama). Uses a professional actor as moderator to set a rapid pace by questioning the student audience and elaborating on answers via one of the four eyes. Uses the question/answer - problem-solving approach plus still photography motion study, animation, and actor's dislogue to present the concepts in simple to complex forms.

Treatment: Problem-solving approach

Audience Level: Mid, Int

Phase I - Specialist Evaluation:

Evaluation Team: CB, WHE, EFN

Team Coordinator: SG

Rating of Individual Production Elements:

Overall Rating: Average

Comments: Pace too rapid to allow students time to consider responses, however, stopping VTR to permit student responses could overcome this handleap. Outstanding feature is the use of 4 monitors for varied explanations. This technique has good possibilities. Picture quality could be detrimental to certain aspects of the content.

COLLOID

16mm, 21 minutes, color, Japanese narration, accompanying printed script and audiotape cassette in English

Producer: Iwansmi Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan

Date: 1965

Subject Area: Chemistry

Unit of Study: Colloids

Content: Defines a colloid and various colloidal states. Demonstrates how these colloidal states can be created and manipulated. Shows experiments dealing with colloidal states.

Treatment: Demonstration utilizing animation, close-ups and

Audience Level: Int., JH, SH, College-Undergra!.

time-lapse techniques

Phase I - Specialist Evaluation:

Evaluation Team: DMo, GC, DMy

Team Coordinator: GRB

Rating of Individual Production Elements:

Overall Rating: Excellent

Comments: The evaluators viewing the film felt it would be a very usable item. The demonstrations are good and the presentation is easy to follow.



COMPUTER SIMULATION OF ORDER-DISORDER PHENOMENA

16mm, 31 minutes, color, English nerretion	
Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2 Chiyoda-ku, Tokyo, Japan	Date: 1968
Subject Area: Physics	Unit of Study: Solid State Physics, Phase Transitions
Content: Shows use of computer in simulating the order-disorder a video screen. Uses charts and graphs to plot result	
Treatment: Lecture utilizing graphics	Audience Level: College-Grad., Adult-Special or Prof.
Phase I - Specialist Evaluation:	
Evaluation Team: RJH, JCB, DB	Team Coordinator: EJE ,
Rating of Individual Production Elements:	
Content	Picture
Overall Rating: Very Good	
its intended purpose is to give a documents Japanese feeling for esthetics comes throug	egments with focus and camera movement protlems. Although ry account of a research project using a computer, the h very well. Science can be beautiful, and these film ate only for advanced physics students in solid state few basic explanations.
• •	
	,
•	
•	
	,
A CRAB'S LIFE	/
16mm, 21 minutes, color, Japanese narration, accompanying English	· .
Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1962
Subject Area: Biology	Unit of Study: Crustaces
Content: Pictures a variety of crabs and shows how they protect life cycle of each type. Shows how particular varieties surroundings in which they live. Uses closeups and pho varieties.	
Treatment: Documentary utilizing photomicrography, close-up and time-lapse photography	Audience Level: JH, SH, Coilege-Undergred., Grad.
Phase I - Specialist Evaluation:	1
Evaluation Team: GCW, DRG, PWB	Team Coordinator: WRV
Rating of Individual Production Elements:	3
Content	Picture
Overall Rating: Excellent	
	made a bit shorter. Appropriate vocabulary with a good similar films currently available on the topic.



CRYSTALS OF SNOW	5
16mm, 22 minutes, color, Japanese narration, accompanying Englis	
Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1960
Subject Area: Chemistry, Meteorology	Unit of Study: Crystals, Weather
Content: Shows many photographs of different kinds and shapes of that have caused particular snow crystal shapes to develor form including the function of water vapor in their form	velop. Develops laboratory experimenta to anow now crystals
Treatment: Factual development, using photomicrography time-lapse, close-ups	Audience Level: Mid, Int, JH, SH, College-Undergrad., Grad., Adult-Teacher Educ., Special or Prof., Gen.
Phase I - Specialist Evaluation:	•
Evaluation Team: JCB, DB, WT	Team Coordinator: EJE
Rating of Individual Production Elementa:	
Content	Picturet Soundna Photo Techniquet
Overall Rating: Good	
Comments: Takes too long to get to the point of the f be shortened by 5 or 10 minutes.	cilm (conditions under which snow crystals grow), could
•	,
`	
•	
1	u
	•
•	
CRYSTALLIZATION OF SAVOUR	
16mm, 27 minutes, color, English narration	1
Producer: Tokyo Cinema Co., Inc., Kanda Surugadai 2-1, Chiyoda-ku, Tokyo, Japan	Date: 1968
Subject Area: Chemiatry	Unit of Study: Applied Chemistry
Content: Shows the scientific steps used in synthesizing nature glutamate. Raises the possibility of someday supplement	al foods. Describes the particular case of monosodium enting the world's food supply by chemical methods.
Treatment: Factual analysis	Audience Level: SH, College-Undergrad., Grad.,

Phase I - Specialist Evaluation:

Treatment: Factual analysis

Team Coordinator: EJE

Adult-Special or Prof.

Rating of Individual Production Elementa:

Evaluation Tesm: PHA, DB, RMB

Coatent......4
Augience Suitability......3
Structure.....4 Picture

Overall hating: Good

Comments: Film has a nice balance of content. The time-lapse photography using polarized light and growing cultures is particularly effective. Some of the animation sequences showing molecules in a synthetic sequence indiscriminately have atoms floating about with no mention that enzymes are present and necessary. Narration could have been clearer.



`	``	•
DAIRY FARMING	IN THE MOUNTAINS	•
16rm, 30 minut	tes, color, Japanese narration, accompanying English pr	inted script
	unju Motion Pictures Co., Jingumae 5-48-1, imbashi Bldg., Shibuya-ku, Tokyo, Japan	Date: 1968
Subject Area:	Agriculture	Unit of Study: Dairy Farming
in s	ws the hard struggle of Japanese dairy farmers in the m snowy Akita Prefecture. Depictshow farmers are reclaim: e of dairy farming is introduced in these areas.	ountainous districts of Kochi and Gumma Prefectures and ng steep mountainous lands for green pastures, as a new
Treatment: Do	ocumentary	Audience Level: JH, SH, College-Undergrad., Adult-
Phase I - Spec	cialist Evaluation:	Special or Prof., Gen.
Eval	luation Team: JN, BD, FW	Team Coordinator: WSt
Rati	ing of Individual Production Elements:	•
	Content4 Audience Suitability4 Structure3	Picture
Ove	rall Rating: Good	
Com	ments: Excellent photography and a well planned and de be of great interest to U. S. audiences.	veloped presentation. Equipment and methods used will
	•	,
	•	
,		-
,	•	
`,		
DECIDUOUS TREE	S AND EVERGREEN TREES	
16mm, 20 minut	es, color, Japanese narration, accompanying English pri	nted script
Producer: Toe	i Co., Kyobashi 2-8, Cho-ku, Tokyo, Japan	Date: 1967
- Subject Area:	Biology, Botany	Holt of Study: Trees
diff	tines botanically the structural differences between decernces in leaf structure. Depicts the nature of the rest the flow of water through these types of plants.	iduous and evergreen trees. Shows the transpirational octs and their functions in moist and dry soil, and
	lustrated lecture using time-lapse and wtomicrography	'udience Level: Mid., Int., JH, SH, College-Undergrad
Phase I - Spec	ialist Evaluation:	٠
^ Eval	uation Team: RLW, DRG, JT	Team Coordinator: PWB
Ratio	ng of Individual Production Elements:	
·	Content	Picture
Overs	all Rating: Average	•
Comme	ents: Although no consensus was reached by the reviewe a useful presentation. Major criticism was that Script translation is very rough. "Pores" = stor Roots "suck up water" - not scientific, "take-up still be effective.	it was too long. The photography is excellent. mata (most American 9th graders would know this).

Phase II - In-the-Field Evaluation:

Evaluation Site: GRM Grade Level: 9

Teacher Ratings:

ERIC

•	
DEFORMATION AND DRAG OF BODY (4 cartridges)	-
Super 8mm Technicolor cartridges, #1-32 minutes, #2-21/3 minuaccompanying Japanese script	tes, #3-2 minutes #4-21/3 minutes, color, silent,
Producer: Not available	Date: Not available
Subject Area: Physics	Unit of Study: Engineering Physica
different weights.	er pulling or pushing. erial. Demonstrates stress lines and their differences using the pulling as spring in opposite directions. to post, and both boys on one end pulling, as compared to
Treatment: Illustrated lecture	Audience Level: JH, SH, College-Undergrad.
Phase I - Specialist Evaluation:	
Evaluation Team: LM, KH, DB	Team Coordinator: EJE
Rating of Individual Production-Elements:	
Content4 Audience Suitability4 Structure4	Picture4 Soundna Photo Technique5
Cverull Rating: Good	•
Comments: Suitable for engineering concepts.	
, ,	
,	*
DEVELOPMENT OF X-RAY ASTRONOMY	
16mm, 20 minutes, color, Japanese narration, accompanying Engli	sh printed script
Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan	Date: 1968
Subject Area: Physics	Unit of Study: Astronomy
define dem management the size and direction of the X-	Japanese and American scientists. Presents observations in intense X-rays. Depicts Japanese scientist as he develops ray sources. Shows how, by special photographic methods g high X-ray radiation have now been located thus opening up
Treatment: Factual analysis, using photography and diagrams	Audience Level: JH, SH, College-Undergrad., Adult-Teacher Educ.
Phase I - Specialist Evaluation:	•
Evaluation Team: LPG, FWW, TCA	Team Coordinator: LPG
Rating of Individual Production Elements:	, , , ,
Content	Picture4 Soundna Photo Technique4

Overall Rating: Good Comments: Good editing and continuity. Useful to explain modern astronomy research techniques. An English soundtrack is essential to a clear understanding of presentation. Film rates high when compared to those on subject presently available in the U.S.



DIF	RAC	rion
VTR	ln,	Son

ny. 20 minutes, b & w, English narration

Producer: NHK International, Tokyo, Japan

Date: Not available

Subject Area: Physics

Unit of Study: Wave Theory, Diffraction

Content: Presents a discussion of properties of wave motion concentrating on the principle of diffraction using sound, light and water as wave mediums. Brings to the viewer such demonstration tools as the projection ripple tank, unechoic room, laser light source black out projection box to show the variance in diffractory properties of the three mediums. Uses slow motion and close-up photography, along with oscilloscopes and other sophisticated sound equipment to graphically demonstrate the existence of long and short diffractor waves.

Treatment: Illustrated lecture

Audience Level: SH

Phase I - Specialist Evaluation:

Evaluation Team: CB, WHE, EFN

Team Coordinator: SG

Rating of Individual Production Elements:

Audience Suitability.....2 Structure.....2

Picture.....3 Sound.....2 Photo Technique......3

Overall Rating: Fair

Comments: Experiments are good but methodology not compatible. Lip sync is poor and language dubbing distracting. Physics authority and moderator are distracting as they lack believable spontaneity.

DISCHARGE

16mm, 13 minutes, b & w, Japanese narration, accompanying English printed script

Producer: Gakken Co., Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan

Date: 1967

Subject Area: Physics

Unit of Study: Static Electricity

Content: Analyzes various ways static electricity is generated and the practical implications associated with the build up and discharge of this electricity. Uses an experimental apparatus to show some of the results of static electricity. Relates these results to thunder and lightning.

Treatment: Factual analysis

Audience Level: Int., JH, SH,, College-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team: RLW, DRG, APM

Team Coordinator: WRV

Rating of Individual Production Elements:

Audience Suitability.....4 Structure.....3 Picture.....4 Sound.....na Photo Technique.....4

Overall Rating: Good

Comments: Generally good for introduction to state electricity. Nothing exceptional about this film that would place it above U.S. films available on same general subject. Footaga on Van der Graaf generator is difficult to follow because of "jumpy" motion. Somewhat hasty examination of common static electric build-up (e.g. ignored walking on rug in cold and/or dry weather).

Phase II - In-the-Field Evaluation:

Evaluation Site: CI

Grade Level: 7,8

Teacher Ratings:

Overall Estimate of Film's Value.....



DISCOVERY OF ZERO	
16mm, 20 minutes, color, Japanese narration, accompanying printed a	script and audiotape cassette in English
Producer: Ajia Eiga-sha Co., Tokyo, Japan	Dete: 1964
Subject Area: Mathematics	Unit of Study: History of Number Systems
Content: Traces the development of the Arabic number system used t fingers and toes and how symbols were finally designed to animation, how the invention of zero helped popularize the developed world trade.	represent specific quantities. illustrates, through
Treatment: Humorous documentary, cartoon-style	Audience Level: Int., JH, SH
Phase I - Specialist Evaluation:	,
Evaluation Team: APM, DRG, JT	Team Coordinator: PWB
Rating of Individual Production Elements:	,
Content	Picture5 Soundna Photo Technique5
Overall Rating: Excellent	
of zero, therefore, has misleading title. Cou	ercome with suitable recorded English script. Some to understand than Roman. Does not describe discovery ald be introductory unit to beginning work on number nity (generally), reinforcement - unusually good
Phase II - In-the-Field Evaluation:	,
Evaluation Site: CPMd, PMd, MM	Grade Level: 8, 10, 11, 12, College-Undergrad., Grad.
Teacher Ratings:	
Overall Estimate of Film's Value	*************************
THE DYNAMIC FLOW OF LIFE	
16mm, 26 minutes. color, Japanese narration, accompanying English	printed script
Producer: Dentsu Motion Picture, Tsukiji 1-7-13, Chuo-ku, Tokyo, Japan	Date: 1967
Subject Area: Biology	Unit of Study: Circulatory System
Content: Explains, through use of the microscope and photography, how they are formed. Depicts hemorrhaging and phagocyto	the different types of blood cells, how they function, an osis.
Treatment: Illustrated lecture using photomicrography and time-lapse	Audience Level: JH, SH, College-Undergrad., Adult-Teacher Educ., Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: SR, WSt, JBr	Team Coordinator: WSt
· Rating of Individual Production Elements:	
Content4 Audience Suitability3 Structure4	Picture4 Soundna Photo Technique5
Overall Rating: Good	
Comments: A worthwhile presentation covering the rudime mechanisms by which the various processes occubeing presented should have been included.	cur. Arrows or other means to point up specific describe
Phase II - In-the-Field Evaluation:	ų.
Evaluation Site: FCV	Grade Level: 9, 10, 11, 12

ERIC

Teacher Ratings:

ELECTRON MICROSCOPE

lomm, 22 minutes, color, English narration	
Producer: Ajia Eigs-sha Co., Tokyo, Japan	Date: 1964
Subject Area: Physics	Unit of Study: Ultramicroscopy
Content: Demonstrates the advantages and presents the nomencl and the utility of this specialized instrument. Use the electron microscope, rather than the regular opt	s photomicrography to depict the adventages of using
Treatment: Illustrated lecture	Audience Level: JH, SH, College-Undergrad., Grad., Adult.Teacher Educ., Special or Prof., Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: RLW, DRG, JT	Team Coordinator: WRV
Rating of Individual Production Elements:	•
Content	Picture5 Sound4 Photo Technique5
Overall Rating: Excellent	,
Comments: Excellent film; may be considered by some	to be too long.
Phase II - In-the-Field Evaluation:	
Evaluation Site: BM, SPM	Grade Level: Senior High
Teacher Ratings:	
Overall Estimate of Film's Value	5
	/ .
ELECTRON MOVEMENT IN THE TUBE	,
16mm, 22 minutes, b & w.f Japanese narration, accompanying Engl	ish printed script
Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2 Chiyoda-ku, Tokyo, Japan	Date: 1963
Subject Area: Physics	Unit of Study: Electron Beams, Vacuum Tubes
Content: Illustrates interior of an electric vacuum tube and strates the similarity to TV picture tube.	the movement of the electron beam within the tube. Demon-
Treatment: Illustrated lecture using models, close-ups, slow-motion, and stroboscopic photography	Audience Level: JH, SH, College-Undergrad.
Phase I - Specialist Evaluation:	•
Evaluation Team: FDS, DRG, WRV	Team Coordinator: AFM
Rating of Individual Production Elements:	
Content4 Audience Suitability2 Structure3	Picture
Overall Rating: Average	•
is effective, especially between electric specific topic in an illustrated lecture i	cal of this type of physics film. Use of a number of smalogie and magnetic fields. Somewhat long to hold interest on this format. Color would d to interest-holding sbility (even cal, necessitating that the audience be ready with prerequisitingth.
Phase II - In-the-Field Evaluation:	
Evaluation Site: SI, SPM, CHM	Grade Level: 12
Teacher Retings:	•
Overall Estimate of Film's Value	



		•
ENERGY	•	
VTR 1", So	ny, 20 minutes, b & w, English marration	
Froducer:	NHK International, Tokyo, Japan	Date: Not available
Subject Ar	ea: Physics	Unit of Study: Energy
	demonstrations such as the inclined plane and gl	cential), work and their relationships and measurements. Offers ider to drive a nail into a clay block, a man mopping a floor, is the points of the presentation. Utilizes close-up and stobe by in formula form the relationships between energy needed and
	Illustrated lecture	Audience Level: JH, SH
Phase I -	Specialist Evaluation:	,
	Evaluation Team: CB, WHE, EFN	Team Coordinstor: SG
,	Pating of Individual Production Elements:	-
	Content3 Audience Suitability2 Structure2	Picture
	Overall Rating: Fair	,
	Comments: Might be better with professional action not compatible with acience methods work and lip sync poor, and translations.	tors as scientists in presentation are very hesitant. Methodologuaed in U.S. Too many formulas for introductory film. Camera tion too literal.
		J
		``
		/
anergy and) WATER	
lcan, 27	minutes, b & w, Japanese narration, accompanying	English printed script
Producer:	Iwanami Productions, Inc., Misaki-cho 2-21-2 Chiyoda-ku, Tokyo, Japan	Date: 1961
Subject A	rea: Physics	Unit of Study: Energy, Water Power
Jontent:	Informs about water in energy production. Discu (either liquid or vapor). Provides examples of do wheels, Pelton Wheels, jets, and the Francis Who	exises and demonstrates the forms of energy produced by water, evices by which water produces energy, such as turbines, water seel.
Treatment	: Illustrated lecture with models, mock-ups, clo and time-lapse	ose-ups, Audience Level: JH, SH, College-Undergrad.
Phase I -	Specialist Evaluation:	•
	Evaluation Team: ABB, DMy, WB	Team Coordinator: GRB
	Rating of Individual Production Elements:	, ,
	Content4 Audience Suitability4 Structure4	Picture2 Soundne Photo Technique3

Overall Rating: Average

Comments: Background music at times overpowering. Good demonstrations, using models. Photo techniques fair, but detract from over-all quality. Logical development of content, but production is too long. The film appears to be old, because of the photo techniques used in its production.

Phose II - In-the-Field Evaluation:

Evaluation Site: MM, GRM .

Grade Level: 6,7

Teacher Ratings:

Overall Estimate of Film's Value.....



EVAPORATION: HOW AND WHY		
16mm, 14 minutes, b & w, Japanese narration, accompanying English printed script		
Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan	Date: 1962	
Subject Area: Physics	Unit of Study: Evaporation	
Content: Depicts molecular activity in evaporation of a liquid. Presents the environmental states which affect evaporation		
Treatment: Factual analysis with demonstration using models, close-ups and photomicrography	Audience Level: Mid., Int., JH, SH, College-Undergrad., Adult-Teacher Educ.	
Phase I - Specialist Evaluation:	, ,	
Evaluation Team: JM, DMa, EHS	Team Coordinator: GRB	
Rating of Individual Production Elements:	,	
Content2 Audience Suitability4 Structure2	Picture	
Overall Rating: Fair	1	
Comments: Of limited value. Evaluators orally verbal evaluations rate it higher. Comparable fil U.S.	lized that the film was of low value while their written ims on same subject of higher quality are available in	
Phase II - In-the-Field Evaluation:		
. Evaluation Site: FM, MM	Grade Level: 5, Senior High	
Teacher Ratings:		
Overall Estimate of Film's Value		
EXPEDITION TO THE ANTARCTIC POLE	·	
16mm, 25 minutes, color, Japanese narration, accompanying Japane	ese printed script	
Producer: Asahi Television News Co., Roppongi 6-4-10, Minato-ku, Tokyo, Japan	Date: 1969	
Subject Area: Engineering/Technology, Geography	Unit of Study: Weather, Polar Areas	
Content: Single preparations of Japanese polar expedition group mobile equipment, living quarters of men, food prepararrival at the Pole.	prior to leaving Showa Station for Antartic Pole. Depicts ration, recreational activities in mobile quarters, and	
Treatment: Documentary	Audience Level: JH, SH, Adult-Special or Prof., Gen.	
Phase I - Specialist Evaluation:	•	
Evaluation Team: LGH, MSF	Team Coordinator: MSF	
Rating of Individual Production Elements:	,	
Content	Picture3 Soundna	

Comments: Some very good photography, some of it taken under bad weather conditions. Shows problems of a trip over uncharted snowfields. Film has limited human interest.



Overall Rating: Average

3გ

EYE ON THE ROAD	,	
16mm, 29 minutes, b & w, Japanese narration, accompanying English	printed script	
Producer: Kanagawa News Eiga Kyokai, Inc., Nihon-odori 1-1, Naka-ku, Yokohama, Kanagawa Prefecture, Japan	Date: 1967	
Subject: Automobile Operation	Unit of Study: Pedestrian and Driver Safety	
Content: Points out a number of causes of traffic accidents, bot Relates-these accidents to human factors of perception	h from the viewpoint of the driver and pedestrian. and attention.	
Treatment: Illustrated lecture, with staged demonstrations, slow motion and stop action photography used	Audience Level: Mid., Int., JH, SH, College-Undergrad., Grad., Adult-Gen.	
Phase I - Specialist Evaluation:	•	
Evaluation Team: BD, JN, PW	Team Coordinator: WSt	
Rating of Individual Production Elements:	•	
Content	Picture3 Soundna Photo Technique4	
Overall Rating: Good	4.	
Comments: Excellent use of staged examples of common or research studies, such as in use of "eye-mov education at all levels. Factual and unbias	causes of accidents. Interesting concepts and well-documented ement camera." Would be useful for pedestrian and driver led.	
•		
-		
· ·		
•		
	X.	
	Ų.	
•		
FERNS		
16mm, 14 minutes, color, Japanese narration, accompanying English printed script		
Producer: Gakken Co., Kamiikeda, 4-40-5, Ota-ku, Tokyo, Japan	Date: 1969 .	

Subject Area: Biology - Botany

Unit of Study: Plant Morphology

Content: Presents a study of ferns by examining specific types. Provides such examples of ferns as the shield fern, osk fern, salvinia, cross-leaf, pinnate and chain fern. Informs about the structure of the fern, processes or reproduction and growth patterns of ferns in their natural habitats.

Treatment: Illustrated lecture using time-lapse, close-ups,

and photomicrography

Audience Level: JH, SH, College-Undergrad.

Phace I - Specialist Evaluation:

Evaluation Team: RJJ, JM, RG

Team Coordinator: GRB

Rating of Individual Production Elements: ℓ

Overall Rating: Good

Comments: Very high quality of photography in production of this film. Should be a useful item, if made available with English sound track. Lacks diagrams for illustration purposes.

ERIC

Full Text Provided by ERIC

FESTIVAL	OF SCIENCE	
16mm, 58	minutes, color, English narration	
Producer	r: Tokyo Cinema Co., Inc., Kanda Surugadai 2-1, Chiyoda-ku, Tokyo, Japan	Date: 1965
Subject	Area: General Science, Social Studies	Unit of Study: Technology
Content:	Details the role of science in the 1964 Clympics in Tokyo soils for the best track; supplying the finest timing deviactivities; and many other areas of needed technical assistaction.	ces; constructing buildings to house the many games and
Treatmen	at: Illustrated lecture	Audience Level: JH, SH, College-Undergrad.
Phase I	- Specialist Evaluation:	
,	Evaluation Team: VE, LEP, DB	Team Coordinator: EJE
	Rating of Individual Production Elements:	,
	Content	Picture
	Overall Rating: Average	
	Comments: Film is slanted toward Japan's electronic indus and construction peopla. Interesting for those adults and/or students. There is too much ramb Possibly an edited varsion for general audience	in professional physical education classes - mature ling and supporting detail for the general classroom.
Phase II	- In-the-Field Evaluation:	-
	Evaluation Site: EMd	Grade Level: 9
	Teacher Ratings:	
	Overall Estimate of Film's Value	\
PTOWP AGA	INST CANCER	•
	minutes, color, Japanese narration, accompanying English pri	nted script
• .	Asahi Television News Co., Roppongi 6-4-10, Minato-ku Tokyo, Japan	
Subject A	rea: Medicine	Unit of Study: Cancer detection and treatment
Content:	Portrays the family-patient situation when cancer has been identifying stomach cancer and the treatment prescribed for of fighting cancer by setting up rural test stations. Uses the difference between healthy cells and cancer cells. Int causation of cancer.	that patient. Describes the overall problem photomicrography of tissues and chromosomes to show
Treatment	: Case-study approach using time-lapse, close-ups and photomicrography	Audience Level: JH, SH, College-Undergrad., Adult-Gen.
Phase I -	Specialist Evaluation:	·
	Evaluation Team: RM, HML, JCR	Team Coordinator: DG
	Rating of Individual Production Elements:	
	Content	Picture
Overell Rating: Excellent		
•	Comments: Although sometimes overly dramatic, the presentat interest in the medical techniques involved in lo accurate. Good introduction to environmental asp	cating and treating cancar. Factual material is
Phase II	In-the-Field Evaluation:	,
	Evaluation Site: SPM, MM, EM, PHI	Grade Level: 10, 11, 12

ERIC Full Text Provided by ERIC

Teacher Ratings:

FISH PARMING IN JAPAN: BUILDING FUTURE FISHING GROUNDS	
16mm, 30 minutes, color, Japanese narration, accompanying printed sq	ript and audiotape cassette in English
Producer: Cinesell Japan, Inc., Akasaka 1-9-15, Minato-ku, Tokyo, Japan	Date: 1968
Subject Area: Biology	Unit of Study: Marine Biology, Ecology, Fisheries
Content: Depicts the current fish farming practices in Japanese coa and scallops are produced.	stal waters whereby large yields of octopuses, lobsters
freatment: Documentary	Audience Level: JH, SH, College-Undergrad., Adult-Special or Prof.
Prase I - Specialist Evaluation:	
Evaluation Team: JDL, MSF	Team Coordinator: JDL
Rating of Individual Production Elements:	
Content	Picture
Overall Rating: Average	•
Comments: Film appears to be made up of segments rather b is variable. A goo, overview of fish farming i	seing a conesive presentation. Quality of the photogrephin a restricted area of Japan.
•	
,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
•	•
	•
	•
, •	
	,
PAR PAR	Y Commence of the commence of
.3H FARMING IN JAPAN: IMPROVEMENT OF ENVIRONMENT FOR FISH	
.cm, 30 minutes, color, English narration	
Producer: Cinesell Japan, Inc., Akasaka 1-9-15, Minato-ku, Tokyo, Japan	Date: 1967
ject Area: Biology	Unit of Study: Marine Biology, Ecology, Fisheries
octopi, abalone, trout and other fishes. Presents the pla in the life and reproductive cycle of these marine food an	de of phytopianktons, sociishkons, and marine and,
.reatmen': Documentary	Audience Level: JH, SH, College-Undergrad., Grad., Adult-Teacher Educ., Special, Prof., Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: WTS, REM, DB	Team Coordinator: EJE
Rhting of Individual Production Elements:	
Content4 Audience Suitability4 Structure4	Picture4 Sound4 Photo Technique4
Overall Rating: Good	
Comments: Seems to ignore many basic principles of marine fisheries, but doesn't show how their efforts a Opens one's eyes to possibilities of maintainin	re affecting the total picture of environment.

ERIC Full faxt Provided by ERIC

PISH HABITATS

16mm, 29 minutes, color, Japanese narration, accompanying English printed script

Producer: Asahi Television News Co., Roppongi 6-4-10, Minato-ku, Tokyo, Japan	Date: 1968
Subject Area: Biology	Unit of Study: Fish
Content: Depicts the mutual relationship between seaweeds and fis fish. Emphasizes importance of marine resources with a photographed underwater.	n. Shows how seaweed and algae are indispensable to life of considerable portion of film consisting of sequences
Trestment: Illustrated lecture with underwater photography	Audience Level: Int., JH SH, College-Undergrad., Grad., Adult-Tescher Educ., Gen.
Phase I - Specialist Evaluation:	10001001
Evaluation Team: WK, BD, JN	Team Coordinator: WSt
Rating of Individual Production Elements:	. 1
Content4 Audience Suitability4 Structure4	Picture
Overall Rating: Good	, \
Comments: A very interesting and informative film. How descriptions and the language used is stilted	ever, the English script is inadequate. It has few scene and difficult to follow.
•	
FISHING MET OF THE WORLD	
16mm, 26 minutes, color, English narration	
Producer: Tokyo Cinema Co., Inc., Kanda Surugadai 2-1, Chiyoda-ku, Tokyo, Japan	Date: 1963
Subject Area: Marine Biology	Unit of Study: Fish
Content: Uses models to demonstrate a ariety of fishing acts and caught and some of their habits. Informs about the advant of care and size of nets, as compared with the previously	tages of Japanese nylon over natural fibers in case
Treatment: Documentary utilizing on-location photography, close- ups and models	Audience Level: JH, SH, College-Undergrad., Adult-Teacher Educ., Special or Prof., Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: ZA, MIM, WRV	Team Coordinator: APM
Rating of Individual Production Elements:	,
Content4 Audience Suitability3 Structure4	Picture
Oversll Rating: Excellent	
taking in of nets in so many different instanc	though a little too much time spent in laying and es. For a textile cless, it illustrates a use for edited so that it will be usable, since too much
Phase II - In-the-Field Evaluation:	
Evaluation Site: GRM, MM	Grade Level: 9
Teacher Ratings: Overall Estimate of Film's Value Usefulness as a Tesching Material Appropriateness as Substitute for Experiments or Demo	

ERIC

FORCE AND MOVEMENT	
16cm, 20 minutes, b & w, Japanese narration, accompanying English pr	rinted script
Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan	Date: 1964
Subject Area: Physics	Unit of Study: Laws of Force and Motion
Content: Reviews some of the laws which control physical movements. force. Demonstrates the application of these laws.	Discusses the laws of inertia, velocity, and
Treatment: Illustrated lecture using models and close-up and slow-motion photography	Audience Level: JH, SH, College-Undergrad., Adult-Teacher Educ.
Phase I - Specialist Evaluation:	
Evaluation Team: RLW, DRG, AFM	Team Coordinator: FWB
Rating of Individual Production Elements:	
Content	Picture, 3 Soundna Photo Technique2
Overall Rating: Poor	,
Comments: Several American films do a better job with thi techniques. Without English soundtrack it is d descriptions.	s topic. PSSC films use similar apparatus with superior lifficult to follow exact correlation of events with
Phase II - In-the-Field Evaluation:	,
Evaluation Site: HMBC	Grade Level: Senior High
Teacher Ratings:	
Overall Estimate of Film's Value	4
••	
FOREST	
16mm, 46 minutes, color, Jápanese narration	,
Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1963
Subject Area: Biology, Engineering/Technology	Unit of Study: Ecology, Conservation, Forestry
Content: Depicts logging, milling of lumber, and processing of for and general care of a forest.	est products. Shows culturing of seedlings, reforestation,
Treatment: Documentary	Audience Level: JH, SH, College-Undergrad.,
Phase I - Specialist Evaluation:	Adult-Teacher Educ., Gen.
Evaluation Team: MSF, LGH	Team Coordinator: MSF
Rating of Individual Production Elements:	,
Content4 Audience Suitability4 Structure3	Picture
Council Portings Cood	

Comments: While the film is long, it is a very good documentary of the harvesting and planting of trees. Film could be edited into two presentations - logging and processing of trees and reforestation. Useful for classes in ecology, reforestation and conservation. Photography and color are excellent.



16mm, 25 minutes, b & w, Japanese narration, accompanying English printed script

Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Date: 1962

Tokyo, Japan

Subject Area: Engineering/Technology

Unit of Study: Metalwork

Content: Demonstrates the art of forging metala including the necessity of controlled heat, the role of dies, and how they are made. Compares material shaped with a small force applied with high frequency, and a large force applied slowly. Explains terms such as free forging, die forging, critical point, temper, and flash or fins.

Treatment: Illustrated lecture using close-ups, photomicrography and cut-aways.

Audience Lével: SH, Adult-Special or Prof.

Phase I - Specialist Evaluation:

Evaluation Team: RMe, DH, DB

Team Coordinator: EJE

Rating of Individual Production Elements:

Picture......3 Audience Suitability.....4 Sound.....na Photo Technique..... Structure.....

Overall Rating: Average

Comments: There are several U.S. films that demonstrate the points just as well. U.S. method of forging is probably more automated. This film could use some reogranization, clarification of continuity, which may mean some editing. Color would help the presentation.

FRICTIONAL ELECTRICITY

16mm, 12 minutes, color, Japanese narration, accompanying printed script and audiotape cassette in English

Producer: Gakken Co., Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan

Date: 1968

Subject Area: Physics

Unit of Study: Electricity

Content: Shows various means for generating static electricity. Depicts rubbing glass and rubber rods in fur, a comb through hair, and an electrostat. Explains how an electrical force affects a stream of water.

Treatment: Illustrated lecture with demonstrations

Audlence Level: Int, JH, SH

Phase I - Specialist Evaluation:

Evaluation Team: RMi, KB, VRT

Team Coordinator: VRT

Rating of Individual Production Elements:

Audience Suitability.....2

Sound.....na

Overall Rating: Fair

Comments: Film is old-fashioned and similar to the early EBF science films. Does not follow current practice in science education of teaching inquiry/discovery or process, but teaches the products of science - facts and information. This motion picture might better be broken down into segments to be used as "single concept" films.



FRICTIONAL FORCE	
16mm, 15 minutes, b & w, Japanese narration, accompanying English	printed script
Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1967
Subject Area: Physics	Unit of Study: Friction
Content: Demonstrates the relationship between external force and objects. Illustrates the amount of external force requisions the difference between rolling and sliding friction	red to move an object by using asand weight apparatus.
Treatment: Demonstration method, using models and close-up photography	Audience Level: JH, SH
Phase I - Specialist Evaluation:	
Evalu-tion Team: RGr, DRG, JT	Team Coordinator: WRV
Rating of Individual Production Elements:	•
Content	Picture2 Soundna Photo Technique3
Overall Rating: Fair	
Comments: Uninteresting and laboriously slow; use of se to follow and relate to visual presentation. covering this topic.	mme models boring. Translated English narration hard There are U.S. films that do much better job in
Phase II < In-the-Field Evaluation:	and a West
Evaluation Site: HMBC	Grade Level: Senior High
Teacher Ratinge: Overall Estimate of Film's Value	
Usefulness as a Teaching Material	emonstrations
THE FROG	
16mm, 22 minutes, color, Japanese narration, accompanying English	
Producer: Toei Co., Kyobashi 2-8, Chub-ku, Tokyo, Japan	Date: 1964
Subject Area: Biology	Unit of Study: Amphibia
Content: Shows the anatomy and habits of the frog. Presents the on their function. Uses extreme closeups and dissection	as for purposes of illustration.
Treatment: Illustrated lecture	Audience Level: JH, SH, College-Undergrad.
Phase I - Specialist Evaluation:	•
Evaluation Team: DS, RWD, VRT	Team Coordinator: VRT
Rating of Individual Production Elements:	•
Content4 Audience Suitability4 Structure4	Picture
Overall Rating: Good	
Comments: Very good close-up photography	
Phase II - In-the-Field Evaluation:	
Evaluation Site: WEIM	Grade Level: Senior High
Teacher Ratings:	
Overall Estimate of Film's Value	



16mm, 29 minutes, b & w, Jspanese narration, accompanying English	printed script.
Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1966
Subject Area: Biology	Unit of Study: Evolution, Anthropology, Primates
Content: Characterizes the evolutionary pattern of man from prehis similarities between different species of monkeys and man specimens and his tools, on a developmental map that depi	n. Charts evolution of men using emphasical
Treatment: Illustrated lecture using animation, charts and live action scenes	Audience Level: JH, SH, College-Undergrad.
Phase I - Specialist Evaluation:	
Evaluation Team: BG, DG, BM, HML	Team Coordinator: DG
Rating of Individual Production Elements:	
Content	Picture
Overall Rating: Poor	*
Comments: The structure of the film and presentation of there is no impact or "content motif" that can the level of information is too low. Also, th impact, with low key photography and lack of d	"carry" the viewers through the film. For a specialist, see picture quality seems to reflect the same lack of
Phase II - In-the-Field Evaluation:	•
Evaluation Site: FI, SFM	Grade Level: 9, Senior High
Teacher Ratings:	
Overall Estimate of Film's Value	4
•	
	,
`	•
PROZEM FISH	
16cm, 20 minutes, color, Japanese narration, accompanying English pr	rinted script
Producer: Cinesell Japan, Inc., Akasaka 1-9-15, Minsto-ku, Tokyo, Japan	Date: 1965
Subject Area: Engineering/Technology	Unit of Study: Food Preservation
Content: Examines techniques for properly freezing and preserving s and in processing plants. Provides suggestions and techni	sea food (fish). Shows operations on freezer ships ques for preparing meals from frozen sea food.
Treatment: Illustrated lecture utilizing time-lapse and photomicrography	Audience Level: Int., JH, SH, Adult-Cen.
Phase I - Specialist Evaluation:	·
- Evaluation Team: OJ, OL, RG	Team Coordinator: GRB
Rating of Individual Production Elements:	
Content4 Audience Suitability4 Structure5	Picture
Overall Rating: Average	,
that should be useful for home economics, consur	most up-to-date. Good film for showing culture, rozen fish industry. An interesting presentation mer education, and economics. Presents interesting ions in translated narration in view of the visuals

ERIC

FROM MONKEY TO MAN: HOW MAN HAS EVOLVED

16nm, 23 minutes, b & w, Japanese narration, accompanying English Printed Script

Producer: Kyoritsu Eiga Co., Ginza 8-12-15, Chuo-ku, Tokyo, Japan Date: 1969

Subject Area: Mathematics

Unit of Study: Functions

Content: Explains the concept of functions, and the analysis and application of functional relations. Depicts close relationship between function and everyday life. Shows how the meaning of domain and value, of function and discovery or homologic rule are formulated or graphed in sea level and temperature variation.

Freatment: Factual presentation using animation and field measurements

Audience Level: JH, SH, Adult-Teacher Educ.

Phase I - Special Evaluation:

Evaluation Team: LPG, RTH, LCJ

Team Coordinator: LPG

Rating of Individual Production Elements:

 Picture.....4
Sound.....na
Photo Technique.....4

Overall Rating: Good

Comments: The basic approach to showing the meaning of the concept of function is outstanding. However, the extensive use of Japanese symbolism significantly diminishes its value for use in a non-Japanese classroom.

FUNCTION OF THE LUNGS

mm, regular, Technicolor cartridge, 3 minutes, color, silent, accompanying English printed script

Producer: Not available

Date: Not available

Subject Area: Biology

Unit of Study: Physiology

Content: Depicts through animation the processes whereby carbon dioxide in the blood is exchanged for oxygen in the lungs and the oxygen is carried in the arteries to all parts of the body.

Treatment: Cartoon-style

Audience Level: Int., JH, SH

Prase I - Specialist Evaluation:

Evaluation Team: LGH, MSF

Team Coordinator: MSF

Rating of Individual Production Elements:

Content.....4
Audience Suitability......4
Structure.....3

Overall Rating: Good

Comments: Good use of animation techniques to explain exchange of gases in lungs and body tissues. Even without printed script the message can be understood.



GENETICS - STUDY OF DNA	
16mm, 25 minutes, color, Japanese parration, accompanying English	printed script
Producer: Gakken Co., Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan	Date: 1968
Subject Area: Biology	Unit of Study: Genetics
Content: Traces the structure and chemical composition of micro s compares the DNA ladder structure to RNA structure. Des of animated comparisons. Describes the transfer RNA to production of amino acids. Reviews genetic differences to the DNA structure.	scribes the chemical makeup of each structure by use the workings of a factory; uses this simile to explai
Treatment: Use of animation and models	Audience Level: SH, College-Undergrad, Grad. Adult-Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: EWN, JS, RD	Team Coordinator: RD
Rating of Individual Production Elements:	
Content	Picture
Overall Rating: Excellent	
Comments: All of the living examples are not necessary. translated English narration is not correct, albumen. Otherwise, an excellent presentation	i.e., the major ingredient of the nucleus is the
Phase II - In-the-Field Evaluation:	
Evaluation Site: E:	Grade Level: 10, 11, 12
Teacher Ratings:	
Overall Estimate of Film's Value	
GEOLOGICAL, STRUCTURE AND CRUST MOVEMENTS	
16mm, 24 minutes, color, Japanese narration, accompanying English	printed script
Producer: Kyoritsu Eiga Co., Ginza 8-12-15 Chuo-ku, Tokyo, Japan	Date: 1966
Subject Area: Geology	Unit of Study: Geological history of an area
Content: Presents an investigation of the Chichibu Mountains in J and other forms of rocks to hypothesize about crustal an in the past. Explains the origin of geosynclinal mounta	d orogenic movements which have occured in the area
Treatment: Illustrated lecture	Audience Level: JH, SH, College-Undergrad., Adult-Gen.
Phase I - Specialist Evaluation:	•
Evaluation Team: NB, DRG, JT	Teem Coordinator: APM
Rating of Individual Production Elements:	
Content	Picture

Overall Reting: Average

Comments: Tends to present topics without sufficient build-up. Additional graphics needed after each segment of film as new strata are discussed. Perhaps graphical treatment explaining geology followed by views of examples in mountains would be superior treatment for clarity. Compared with other films on Japanese geology it tends to be poor and would have a limited audience due to nature of film's exclusive use of Japanese examples. In advanced geology class, this film would be a useful illustration of principles on international basis.



CLASS AND WIND

Others Man Little	
16mm, 20 minutes, color, Japanese narration, accompanying English	printed script.
Producer: Bunka Production, Takaido-Higashi 4-15-3, Suyinami-ku, Tokyo, Japan	Date: 1968
Subject Area: Engineering/Technology	Unit of Study: Construction Materials
the problem with normal glass, and then by showing a so glass which is highly flexible and resistant to breakag	elistic and controlled situations with implications for use ditions. Presents developmental approach by first illustrating plution arrived at through experimentation and actual use of ge during pressure changes. Uses vacuum chambers, closeup and so to enhance for the viewer the flexing of the glass as
Treatment: Documentary with dramatization	Audience Level: Adult - Special or Prof.
Phase I - Specialist Evaluation:	
Evaluation Team: VM, EFN	Team Coordinator: SG
Rating of Individual Production Elements:	
Content	Picture5 Soundna Photo Technique4
Overall Rating: Average	
Comments: Not an educational but an excellent promotio understanding of media for creating favorabl of a good promotional film and also how the	onal film, with good photography. Indicates thorough the image. Could be used by professionals as an example depicted type of experimentation might be carried on.
·	
	· ·
	•
GLASSWORK	
VTR ½", Sony, 20 minutes, b & w, English narration	·
Producer: NHK International, Tokyo, Japan	Date: Not available
Subject Area: Engineering/Technology	Unit of Study: Glasswork
Content: Offers an informative demonstration on the construction student might use. Shows how to break, hold, heat, shap the properties and sizes of glass tubing required for ve shots allows the viewer to readily view the construction and metal joints.	pe and blow glass tubing for various items and discusses arious tasks. Use of still photos and close-up camera
Treatment: Demonstration	Audience Level: SH, College- Undergrad.
Phase I - Specialist Evaluation:	
Evaluation Team: CB, WHE, EFN	Team Coordinator: SG
Rating of Individual Production Elements:	
Content4 Audience Suitability4 Structure3	Picture
Overall Rating: Average	,
Comments: Excellent demonstrations. Attempts at questi poor. Good editing could make this a very us	

ERIC

*Full Text Provided by ERIC

GRASSHOPPERS 16mm, 12 minutes, color, Japanese Narration, accompanying printed script and audiotape cassette in English. Producer: Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan Date: 1968 Subject Area: Biology Unit of Study: Entemology Content: Portrays the life cycle and environment of grasshoppers. Uses emperiments to show grasshoppers' attraction to light and the types of food they do and do not like. Observes female grasshoppers laying eggs via photomacrography. Treatment: Factual analysis Audience Level: Pri., Mid., Int. Phase I - Specialist Evaluation: Team Coordinator: EJE Evaluation Team: LW, MS, DWH Rating of Individual Production Elements: Audience Suitability.....3 Sound.....na Photo Technique..... Overall Rating: Good Comments: For the younger students, film will provide awareness of grasshoppers. Outstanding photography, especially the close-up of molting and egg laying. Confusion may occur from the unexplained use of the term "middle" instead of thorax. HISTORY OF JAPANESE AGRICULTURE 16mm, 33 minutes, color, Japanese narration, accompanying English printed script Producer: Nosan Gyoson Bunka Kyokai Corporation, Akasaka 7-6-1, Minato-ku, Tokyo, Japan Unit of Study: Sociology, History of Agriculture Subject Area: Agriculture Content: Illustraces the history and development of agriculture in Japan from its beginning to the present through the use of ancient relics, pictures and photographs. Shows the efforts and various technical devices of present-day Audience Level: JH, SH, College-Undergrad. Treatment: Documentary, using artifacts Phase I - Specialist Evaluation: Team Coordinator: LPG Evaluation Team: LPG, PWW, TCA Rating of Individual Production Elements: Picture.....3 Audience Suitability......3

Overall Rating: Average

Structure......3

Comments: Useful in social studies course to give authentic picture of Japanese agricultural history.



HOW THINGS BURN 16mm, 16 minutes, color, Japanese narration, accompanying printed script and audiotape cassette in English Producer: Gakken Co., Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan Date: 1969 Subject Area: Chemistry Unit of Study: Combustion Content: Examines the changes which take place when things burn using the flame of a candle as an example. Depicts the combustion of liquids, such as gasoline, and gases. Treatment: Factual presentation using photo analysis Audience Level: JH, SH Phase I - Specialist E. aluation: Evaluation Team: PWW, TCA, LPG Team Coordinator: LPG Rating of Individual Production Elements: Picture.....5 Audience Suitability.....4 Sound.....na Photo Technique.....5 Overall Rating: Excellent Comments: Excellent photography, including Schlieren, showing phenomena difficult to demonstrate in the classroom. Excellent development and the film treatment lends itself to inquiry lesson on how to put out a fire. Students should be warned not to try all of the demonstrations, especially the one using gasoline, because of possibility of fire. HOW TO FIND FAULTS IN MACHINES 16mm, 26 minutes, b & w, Japanese narration, accompanying English printed script Date: 1961 Producer: Iwanami Productions; Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Unit of Study: Mechanics Subject Area: Engineering/Technology Content: Examines machine failure with logical trouble-solving techniques. Uses automobiles as representative of complex machines, which may malfunction and need to be repaired. Divides a machine into several systems for purposes of analyzing failures, and explores trouble-shooting procedures. Audience Level: SH , Treatmest: Illustrated lecture using models and

close-up photography

Phase I - Specialist Evaluation:

Praluation Team: MD, PTa, NN

Rading of Individual Production Elements:

Picture.....l Audience Suitability......2
Structure.....1 Sound.....na Photo Technique.....2

Overall Rating: Poor

Comments: Good for introducing problem-solving techniques when working with machines, but muddles the water by incorporating aspects of safe driving. Basic principles of driving and car care presented are not acceptable in U.S.A. at this time, especially the use of liters, kilometers, and Centigrade temperatures. Basically a driver education film - not general science. Many U.S. films are available for driver education and car maintenance. Translated narration script a little on the "dramatic" side.

Team Coordinator: GRB



HIMAN BODY I: THE BLOODSTREAM Super 8mm Technicolor cartridge, 2 minutes, color, silent, accompanying English printed script Producer: Not available Date: Not available Subject Area: Biology Unit of Study: Circulation Content: Shows examples of blood flow in the ear of a rabbit, web of a frogs foot and lung of a frog. Shows movement of blood in different directions. Treatment: Factuel analysis using photomicrography Audience Level: Int., JH, SH Phase I - Specialist Evaluation: Evaluation Team: RR, GB, JAG Team Coordinator: DG Rating of Individual Production Elements: Picture.....5 Structure..... Overall Rating: Excellent Comments: An excellent presentation. However, green spots appear on film several times and focusing secms poor on photomicrographs. HUMAN BODY I: BONES OF THE BODY Super 8mm Technicolog cartridge, 2 minutes, b & w, silent, accompanying English printed script Producer: Not available Date: Not available Subject Area: Biology Unit of Study: Skeletal System Content: Identifies bony tissue and labels the makeup of bone. Phase I - Specialist Evaluation: Evaluation Team: RR, GB, JAG Team Coordinator, DG Rating of Individual Production Elements: Picture..... Audience Suitability.....3 Soundna Structure.....3 Photo Technique......3 Overall Rating: Average Comments: The percentage of bony structure should be at the beginning rather than at the end of film. There are several poor frames between transitions that interrupt continuity. Good cross and longitudinal shots.

ERIC

HIMAN BODY I. THE DIGESTIVE ORGANS

Super 8mm Technicolor cartridge, 3 minutes, b & w, silent, accompanying English printed script

Producer: Not available

Date: Not available

Subject Area: Biology

Unit of Study: Digestion

Content: Uses fluorography techniques to show the action and flow of food stuff through the gastrointestinal tract.

Treatment: Factual analysis using fluorography

Audience Level: Int. JH, SH

Phase I - Specialist Evaluation:

Evaluation Team: RR, GB, JAG

Team Coordinator: DG

Rating of Individual Production Elements:

 Picture
 5

 Sound
 na

 Photo Technique
 5

Overall Rating: Good

Comments: Good use of fluorography; many distracting white scratches limit effectiveness.

HUMAN BODY I: HEART AND CIRCULATORY SYSTEM

Super 8mm Technicolor cartridge, 22 minutes, b & w, silent, accompanying English printed script

Producer: Not available

Date: Not available

Subject Area: Biology

Unit of Study: Circulation

Content: Shows action of heart with fluorography, parts of heart labelled on a chart. Presents, via animation, the flow of blood in and out of the heart, as well as the pumping action. Illustrates the systemic flow through the body, and shows

capillary flow of blood.

Treatment: Live action photography and animation

Audience Level: Int., JH, SH

Phase I - Specialist Evaluation:

Evaluation Team: RR, GB, JAG

Team Coordinator: DG

Rating of Individual Production Elements:

Overall Rating: Good

Comments: Labeling in Japanese presents a communication problem for U.S. students. Pumping of heart and resultant blood flow is well done.

ERIC

HIMAN BODY I: STRUCTURE OF JOINTS

Super 8mm Technicolor cartridge, 2½ minutes, b & w, silent, accompanying English printed script

Producer: Not available

Date: Not available

Subject Area: Biology

Unit of Study: Skeletal System

Content: Shows the action of a ball joint in a human skeleton. Presents the joints of the elbow, wrist, and finger.

Diagrams the make-up of a ball joint.

Treatment: Demonstration using fluorography and live action

Audience Level: Int., JH, SH

Phase I - Specialist Evaluation:

Evaluation Team: RR, GB, JAG

Tesm Coordinator: DG

Rating of Individual Production Elements:

Content.....4 Audience Suitability.....4 Picture.....3 Sound.....na Photo Technique......3

Overall Rating: Good

Comments: Good X-ray views of hinge and rotary joints. Needs an X-ray shot of the ball-and-socket joints.

HUMAN BODY I: STRUCTURE OF THE EAR

Super 8mm Technicolor cartridge, 2 minutes, b & w, silent, accompanying English printed script

Producer: Not available

Date: Not available

Subject Area: Biology

Unit of Study: Ear, Hearing

Content: Shows the action of a vibrating ear drum. Depicts the parts of the ear, with labels, using actual specimens and presents dissected examples of ear parts. Illustrates the action of ear parts which produce the hearing sense through the use of animation.

Treatment: Demonstration using models and diagrams

Audience Level: JH

Phase I - Specialist Evaluation:

Evaluation Team: RR, GB, JAG

Team Coordinator: DG

Rating of Individual Production Elements:

Audience Suitability.....4

Picture.....4 Sound.....na Photo Technique.....4

Overall Rating: Good

Comments: Japanese labels present a problem for U. S. students

·	•
HUMAN BODY II: FUNCTION OF THE LUNGS	•
Super 8mm Technicolor cartridge, 3 minutes, color, silent, accompan	nying English printed script
Producer: Not available	Date: Not available
Subject Area: Biology	Unit of Study: Circulation, Respiration
Content: Shows the oxygen transfer in lungs from air to blood by blood to the heart.	use of diagrams. Relates the process to the pumping of
Treatment: Demonstration using animation	Audience Level: Mid., Int., JH, SH
Phase I - Specialist Evaluation:	•
Evaluation Team: RR, GB, JAG	Team Coordinator: DG
. Rating of Individual Production Elements:	
Content	Picture
Overall Rating: Excellent	,
Comments: Particularly good because there is no labeling. There is poor color contrast in sequence on extend (02) particles being exchanged.	g of parts in Japanese, and thus can be used with ease. Exchange of gases and one cannot see the blue $({\rm CO_2})$ and
,	
i	
•	
•	

HUMAN BODY II: THE KIDNEY

Super 8mm Technicolor cartridge, 2 minutes, b & w, silent, accompanying English printed script

Producer: Not available

Date: Not available

Subject Area: Biology

Unit of Study: Renal System

Content: Uses photomicrography to show nephrons. Shows the process of renal metabolism. Parts of kidney are labelled

Audience Level: Int., JH, SH Treatment: Demonstration using animation and photomicrography

Phase I - Specialist Evaluation:

Evaluation Team: RR, GB, JAG

Team Coordinator: DG

Rating of Individual Production Elements:

Picture...... Content.....5 Sound.....na
Phc^2 Technique......4 Audience Suitability.....5 Structure.....5

Overall Pating: Excellent

Comments: Presentation clear and well organized, with good photography.



HUMAN BODY II: MUSCLES THAT MOVE BONES	
Super 8mm Technicolor cartridge, 3 minutes, b & w, silent, accompa	nying English printed script
Producer: Not available	Date: Not available
Subject Area: Biology	Unit of Study: Muscular System
Content: Shows the principle behind the muscle leverage in flexic pulleys to demonstrate the principle. Shows, through fl	n and extension of the forearm. Uses a wooden model with uorography and animation, the actual process.
Treatment: Demonstration using animation, models, and fluorography	Audience Level: Mid., Int., JH, SH
Phase I - Specialist Evaluation:	
Evaluation Team: RR, GB, JAG	Team Coordinator: DG
Rating of Individual Production Elements:	`
Content5 Audience Suitability4 Structure5	Picture
Overall Rating: Excellent	5 °
Comments: A good presentation that gives variety of exe extension. The example of contraction-extens	mplars. There is a good action diagram of flexion- ion, using the string, is misleading.
	•
	7*
	,
HUMAN BODY II: PERSPIRATION	
Super &mm Technicolor cartridge, 2 minutes, color, silent, accompa	nying English printed script
Producer: Not available	Date: Not Available
Subject Area: Biology	Unit of Study: Skin, Perspiration
Content: Examines the makeup of the skin and identifies its parts skin-related tissue. Includes diagrams to illustrate pe	. Uses photomicrography to show epithelial and other rspiration or sweating.
Treatment: Demonstration using animation, photomicrography and live action	Audience Level: Int., JH, SH
Phase I - Specialist Evaluation:	
Evaluation Team: RR, GB, JAG	Team Coordinator: DG
Rating of Individual Production Elements:	
Content	Picture

ERIC Frontidad by ERIC

Overall Rating: Excellent

.Comments: Good photomicrography. Film well structured.

HUMAN BODY II: STRUCTURE OF THE EYE	
Super 8mm Technicolor cartridge, 2 minutes, b & w, silent, accom	mpanying English printed script
Producer: Not available	Date: Not available
Subject Area: Biology	Unit of Study: Eye, Seeing
Content: Illustrates the process of seeing. Shows the change tusing animation.	that occurs with dilation. 'Identifies parts of eye on a char
Treatment: Demonstration using animation	Audience Level: Mid., Int., JH, SH
Phase I - Specialist Evaluation:	
Evaluation Teem: RR, GB, JAG	Team Coordinator: DG
Rating of Individual Production Elements:	,
Content.,	Picture4 Soundna Photo Technique4
Overall Rating: Good	
·	•
HYDRAULIC PRESSURE	
16mm, 21 minutes, b & w, Japanese narration, accompanying Japane	ese and English printed summaries
Producer: Iwanami Productions, Inc. Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan	Date: 1964
Subject Area: Engineering/Technology	Unit of Study: Mechanics
Content: Depicts the pressure exerted by a column of water thro Demonstrates that pressure is independent of shape of in hoists, jacks and presses.	ough use of lucite models, with elastic diaphragm bottoms, container. Shows industrial application of these principles
Treatment: Illustrated lecture with actual examples, models and close-ups.	Audience Level: JH, SH, College-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team: MG, MSF Team Coordinator: MG

Rating of Individual Production Elements:

Overall Pating: Good

Comments: A very good presentation on the principles and usefulness of hydraulic pressure. Excellent use of models.



HYDROPONICS

16mm, 15 minutes, color, Japanese narration, accompanying printed script and audiotape cassette in English Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan Date: 1969 Subject Area: Botany Unit of Study: Plant Growth Content: Shows the growing of daffodil bulbs in water. Compares growthin darkness with development in light. Illustrates that a daffodil grown only in water obtains much nourishment from within bulb which loses weight during growing process. Audience Level: Pri., Mid., Int., Adult-Teacher Educ. Treatment: Demonstration, using time-lapse photography Phase I - Specialist Evaluation: Evaluation Team: LPG, PWW, TCA Team Coordinator: LPG Rating of Individual Production Elements: Content....4 Picture.....4 Audience Suitability.....3 Sound.....na Structure.....5 Photo Technique.....4 Overall Rating: Good Comments: A good film on plant growth. However, there may be some cultural barriers to acceptance of Japanese children and drawings with Japanese writing. If carefully introduced by teacher, film could be well accepted at 5 - 6 grade level. Film has potential for teacher training. IGNEOUS ROCK 16mm, 22 minutes, color, Japanese narration, accompanying English printed script. Date: 1963 Producer: Kyoritsu Eiga Co., Chau-ku, Tokyo, Japan Unit of Study: Igneous Rock Subject Area: Geology Content: Discusses how volcanic, intermediate plutonic, and plutonic rocks are formed. Uses a polarizer microscope to distinguish between different kinds of igneous rocks. Explains an hypothesis regarding crystal differentiation of magma. Audience Level: JH, SH, College- Undergrad. Treatment: Illustrated lecture using close-ups, photomicrography, models and diagrams. Phase I - Specialist Evaluation: Evaluation Team: ARM, HRB, WT Team Coordinator: EJE Rating of Individual Production Elements: Picture.....3 Sound.....na Audience Suitability.....2 Photo Technique.... Structure.....2 Overall Rating: Average Comments: Much of the sequence seems to be out of order. Film jumps between black & white and color. Inaccuracies in translated narration text, especially in descriptions of rocks and minerals. Not useful for American audience without English sound track, and even then, it is rather inferior to comparable films already available. Many of the illustrations are captioned in Japanese. Phase II - In-the-Field Evaluation: Grade Level: 10, 11, 12 Evaluation Site: SI Teacher Ratings: Overall Estimate of Film's Value..... Usefulness as a Teaching Material.....5 Appropriateness as Substitute for Experiments or Demonstrations......5



INDUSTRIAL USES OF MICROORGANISMS	
16mm, 30 minutes, color, Japanese narration, accompanying Engl	lish printed script
Producer: Dentsu Motion Picture, Tsukiji 1-7-13, Chuo-ku, Tokyo, Japan	Date: 1969
Subject Area: Biology	Unit of Study: Microbiology
Content: Shows relationship between microorganisms and indust alcohol, and discovery of pasteurization. Demonstre Pseudomonas bacteria to control pollution of water to breakdown of petroleum, copper, and iron.	cry. Depicts fermentation of grape juice, production of ates role of microorganisms in breakdown of wastes, use of by mercury compounds, and role of bacteria and yeasts in
Treatment: Illustrated lecture using photomicrography	Audience Level: JH, SH, College-Undergrad., Adult-Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: LPG. PWW	Team Coordinator: LPG

Rating of Individual Production Elements:

Picture.....4 Content......4
Audience Suitability......4 Sound.....na Photo Technique.....4 Structure.....3

Overall Rating: Good

Comments: Film demonstrates fascinating applications that are new to most secondary school students. Should be useful in motivating student interest in science. Of value to those interested in problems of industrial pollution, metal and food production.

INFLAMMATION:	HOW	AND	WHY?
T114 TW/T MITTAIN .	****	71410	*****

15mm, 22 minutes, color, Japanese narration, accompanying printed script and audiotape cassette in English.

Producer: Dentsu Motion Picture, Tsukiji 1-7-13, Chuo-ku,

Date: 1969

Tokyo, Japan Subject Area: Health Science

Unit of Study: Physiology, Pathology

Content: Presents the processes in the body which combat infection caused by entry of foreign material. Explains the action of leucocytes in the disease fighting processes. Shows the re-establishment of circulation in a diseased tissue area and proliferation of fibroblasts which regenerate connective tissue.

Treatment: Illustrated lecture using time-lapse and photomicrography

Audience Level: SH, College-Undergrad., Grad., Adult-Special or Prof., Gen.

Phase I - Specialist Evaluation:

Evaluation Team: TS, JWH, EHS

Team Coordinator: GRB

Rating of Individual Production Elements:

Picture.....4 Sound.....na Audience Suitability......5 Photo Technique.....5 Structure.....4

Overall Rating: Excellent

Comments: Outstanding photographic techniques to show details of changes in tissue cultures used in demonstrating processes of infection, inflammation, and tissue repair.



INORGANIC NU	ITRITION OF PLANTS	
16mm, 18 mir	nutes, b & w, Japanese narration, accompanying English prin	nted script.
Producer: P	Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan	Date: 1967
Subject Area	a: Botany	Unit of Study: Plant Chemistry
ni	epicts diseased plants which do not have sufficient quanti- itrogen fixation in plants and the role of bacteria (Rhizolapan.	ties of the necessary chemical nutrients. Explains bium) in fixing nitrogen. Uses plants common to
Treatment:	Illustrated lecture using time-lapse and photomicrography	Audience Level: JH, SH
Phase I - S	pecialist Evaluation:	,
E	valuation Team: GCW, DRG, WC	Team Coordinator: APM
R	ating of Individual Production Elements:	
	Content4 Audience Suitability4 Structure3	Picture
	verall Rating: Good	
	close-ups of stomata. Photomicrography is gener tend to cut abruptly. Film needs editing.	content. Broad coverage providing wide applicability. iled a script that is hard to keep up with. Interesting ally excellent. Script is rather jerky as some scenes
	In-the-Field Evaluation:	Grade Level: Senior High
	valuation Site: WBIM	State Evision States
——— - ₹	eacher Ratings: Overall Estimate of Film's Value	4
INSECT BO		
	minutes, color, Japanese narration, accompanying English p	
Producer:	Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1964
•	rea: Biology	Unite of Study: Entomology
Content:	examines the body structure of various insects according abdomen. Discusses eyes (simple and compound), antennae, head; wings and legs as predominant structures of the tho various spiracles. Uses animation and time-lapse photographic cycle.	ray area: the abdomen section is depicted, showing
Treatment	: Illustrated lecture	Audience Level: Mid., Int., JH, SH
Phase I -	Specialist Evaluation:	
	Evaluation Team: GCW, DRG, FWB	Team Coordinator: WRV
	Rating of Individual Production Elements:)
,	Content	Picture5 Soundna Photo Technique5
	Overall Rating: Good	
	Comments: Excellent photography of unusual scenes and de Japanese labeling would be a positive factor.	tail. More variety might be of value. Deleting the
Phase II	- In-the-Field Evaluation:	
	Evaluation Cito: SI	Grade Level: 10, 11, 12
	Teacher Ratings:	
	Overall Estimate of Film's Value	



INSECT PESTS OF RICE PLANTS	A
16mm, 20 minutes, color, Japanese narration, accompanying English	printed script
- Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1968
Subject Area: Biology	Unit of Study: Entomology
Content: Shows the appearance and habits of formidable insect per seasons of the year.	its of growing rice plants. Depicts damage done in all
Treatment: Illustrated lacture using photomacrography	Audience Level: Int., JH, SH, College-Undergrad., Grad. Adult-Special or Prof., Gen.
Phase I - Specialist Evaluation:	•
Evaluation Team. LPG, PWW, CWR	Team Coordinator: LPG
Rating of Individual Production Elements:	· •
Content4 Audience Suitability4 Structure3	Picture5 Soundna Photo Technique4
Overall Rating: Good	
Comments: A well produced film that should be useful in regional appeal in U.S. due to limited growing.	n classes on insect pests at graduate level. Probably of ag of rice.
~	•
3	
•	
	,
,	•
INSECTS IN MOUNTAIN STREAMS	
16mm, 20 minutes, color, Japanese narration, accompanying English p	printed script.
Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1967
Subject Area: Biology	Unit of Study: Entomology
Content: Shows insect inhabitants of mountain streams in Japan. I ephemeras, and corydalidae. Presents the birth, life, an living habits.	Identifies specific insects: trichopteras, plecopteras, and death cycles of these insects with an emphasis on
Treatment: Illustrated lecture	Audience Level: JH, SH, College-Undergrad, Grad., Adult-Teacher Educ., Special or Prof., Gen.
Phase I - Specialist Evaluation:	Ų.
Evaluation Team: HB, CH, VRT	Team Coordinator: VRT
Rating of Individual Production Elements:	•
Contents	Picture
Overall Rating: Good	
Comments: Even with the problems with the translated scr	ript the subject specialists were impressed.
Phase II - In-the-Field Evaluation:	
Evaluation Site: SPM	Grade Level: 9, 10
Teacher Ratings:	,
Overall Estimate of Film's Value	



INTERFERENCE

VTR 2", Sony, 20 minutes, b & w, English narration. Producer: NHK International, Tokyo, Japan Date: Not available Subject Area: Physics Unit of Study: Wave Motion Content: Discusses the property of wave motion known as interference, concentrating on the establishment of the idea of wave interference strips. Utilizes projection ripple tank, sound sending and receiving equipment, and laser light source to depict invisible and audible forms at the nodes and anti-nodes which are the resultants of meeting waves from photography to bring moire' patterns and other examples into sharp focus so the viewer is better able to ascertain what is occurring Treatment: Illustrated lecture Audience Level: SH Phase I - Specialist Evaluation: Evaluation Team: CB, WHE, EFN Team Coordinator: SG Rating of Individual Production Elements: Content..... Picture.....3 Audience Suitability.....2 Sound......1 Structure.....2 Photo Technique......3 Overall Rating: Fair Comments: Lip sync is poor. Contains poor editing and generally the sound track is distracting. Seems to lack planning and appears to have methodology conflicts. KINETIC ENERGY 16mm, 22 minutes, b & w, Japanese narration, accompanying English printed script. Producer: Toel Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan Date: 1966 Subject Area: Physics Unit of Study: Energy Content: Develops relationships between kinetic energy, mass and velocity. Illustrates potential energy and momentum. Discusses conservation of energy. Treatment: Illustrated lecture using close-up, time-lapse Audience Level: JH, SH and stroboscopic photography Phase I - Specialist Evaluation: Evaluation Team: FDS, DRG, WRV Team Coordinator: APM Rating of Individual Production Elements: Picture.....3 Sound.....na Audience Suitability.....2 Photo Technique.....4 Overall Rating: Fair Comments: Attempts to cover a number of topics in a single film. Covers too much too quickly. Uses too large a number of examples of similar principles of kinetic energy. Several segments are treated fairly well, and film might be edited and revised to elaborate only section on momentum and conservation of energy. Too many U.S. films do a far superior handling of topics. Might make several single-concept films instead of a 16mm film of this length. Topics can be treated in classroom in more meaningful manner. Phase II - In-the-Field Evaluation: Evaluation Site: GRM Grade Level: 8 Teacher Ratings: Overall Estimate of Film's Value......2 Usefulness as a Teaching Material......3 Appropriateness as Substitute for Experiments or Demonstrations......3



LASER 16mm, 25 minutes, color, Japanese marration, accompanying English printed script Producer: Gakken Co., Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan Date: 1968 Unit of Study: Light, Wave Theory Subject Area: Physics Content: Describes principle of the laser, Illustrates operation of several types of laser beams. Shows a number of applications, including holography. Audience Level: JH, SH, College-Undergrad., Adult-Treatment: Illustrated lecture, using photomicrography Teacher Educ. Phase I - Specialist Evaluation: Team Coordinator: LPG Evalution Team: LPG, TCA, PWW Rating of Individual Production Elements: Picture.....3 Sound.....na
Photo Technique......3 Audience Suitability.....4 Structure......3 Overall Rating: Fair Comments: Excellent scenes of effects of laser beams on materials. Basic introductory information excellent, lacked continuity as presentation moved into body of film. English soundtrack necessary since subject is technical and sound needs to be closely related to picture. Film could be shortened by 5 - 8 minutes and thereby improved. LAWS OF FALLING MOTION 16mm, 15 minutes, b & w, Japanese marration, accompanying English printed script Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan Date: 1965 Unit of Study: Kinematics Subject Area: Physics content: Demonstrates that the failing motion of projected balls is a combination of horizontal motion with constant velocity and vertical motion with constant acceleration. Audience Level: JH, SH, College-Undergrad. Treatment: Illustrated lecture using models and high-speed photography Phase I - Specialist Evaluation: Team Coordinator: WSt Evaluation Team: WSt, JBr, SR

Rating of Individual Production Elements:

 Picture
 4

 Sound
 ne

 Photo Technique
 4

Overall Rating: Good

Comments: A detailed and clear presentation, with useful demonstrations. However, film rather overdoes its main point and is perhaps unnecessarily redundant.



LEAP	ROLLING	WEEVILS

16mm, 16 minutes, color, Japanese narration, accompanying printed script and audiotape cassette in English.

Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan

Date: 1963

Subject Area: Biology Unit of Study: Entomology

Content: Demonstrates how the leaf rolling weevils build their nests and the purpose of these nests. Shows how the female weevil chooses, prepares, and rolls the leaf into a nest or cocoon for the weevil larvae. Uses closeups and time-lapse photography to show the leaf rolling and the larval development inside the cocoon.

Treatment: Factual analysis, using close-up and time-lapse Audience Level: Int., JH, SH, College-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team: RLW, DRG, APM Team Coordinator: WRV

Rating of Individual Production Elements:

Overall Rating: Excellent

Comments: Outstanding film with excellent photography and structure. Does not indicate what species of plant the weevil uses, nor whether more than one species could be used. Presents a good example of "natural instinct". Offers several opportunities for student inquiry through questions asked in narration script.(e.g., Why does weevil crump...).

LIFE IS BORN

16mm, 17 minutes, color, partly Japanese and partly English narration.

Producer: Tokyo Cinema Co., Inc., Kanda Surugadai 2-1, Date: 1963

Tokyo, Japan

Subject Area: Biology

Unit of Study: Embryology,

Team Coordinator: DG

Content: Shows the development of a chick embryo from the blastodisc phase of undifferentiated cells to a 90-hour embryo. Exemplifies cell division in the undifferentiated stages. Depicts the formation of the primitive streak, neural tube, the brain and circulatory system. Uses time-lapse photography to show developmental stages and photomicrography to depict the differentiated cells of nerves, muscle, epithelium, and fibroblasts.

Treatment: Illustrated lecture, using close-up, time-lapse Audience Level: SH, College-Undergrad., Grad.

end photomicrography

Phase I - Specialist Evaluation:

Rating of Individual Production Elements:

Evaluation Team: JDD, MRM, JAG

Overall Rating: Good

Comments: The film may have a limited use because of its rapid development. Students of embryology as a specialty may think it too superficial, while high school biology students may find it highly elucidating and valuable. A more appropriate title might be: "Some Contributions of the Primitive Streak to Living Systems".



LIFE OF WATER BIRDS	·
16mm, 41, minutes, color, Japanese narration, accompanying Englis	h printed script.
Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1961
Subject Area: Biology	Unit of Study: Ornithology
Content: Shows birds in their natural habitats. Combines foota the birds' life cycles, nest building, mating, egg-lay	ge of water birds and descriptive narration to explaining, foraging for food, and reactions to natural enemies.
Treatment: Illustrated lecture, using close-up photography	Audience Level: Pre, Pri, Mid, Int, JH, SH, College-Undergrad., Adult, Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: DRG, JT, WRV	Team Coordinator: PWB
Rating of Individual Production Elements:	
Content	Picture5 Soundna Photo Technique5
· Overall Rating: Good	
Comments: Sequences are too long, causing film to los close-ups of birds in their habitats. Very must.	se its overall effect. The strength of the film is in the good picture quality and techniques. English sound is a
Phase II - In-the-Field Evaluation:	
Evaluation Site: SPM	Grade Level: 9, 10
Teacher Ratings: Overall Estimate of Film's Value	
LIGHT AND COLOR	
lémm, 10 minutes, color, Japanese narration, accompanying Englis	sh printed script.
Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1962
Subject Area: Physics	Unit of Study: Light, Electromagnetic Energy
Content: Shows the relationship between light and color, and ex- of refraction of white light influences the color. St the color it will appear when illuminated with the pri	NOWS NOW the Original color of an object can infrdence
Treatment: Illustrated lecture	Audience Level: Int., JH, SH, College-Undergrad.
Phase I - Specialist Evaluation:	
Evaluation Team: RLW, DRG, JT	Team Coordinator: WRV
Rating of Individual Production Elements:	
Content4 Audience Suitability3 Structure	Picture5 Soundna Photo Technique5
Overall Rating: Good	
and beau in convence Reputiful color DDO	sual presentation is given, so that it is essier to follow tography. Does not explain diffraction of light in relation be too theoretical for an introductory film.
Phase II - In-the-Field Evalvation:	
Evaluation Site: RMd, PHI, ORM	Grade Level: 8, College-Undergrad.
Teacher Ratings:	
Overall Estimate of Film's Value	Demonstration3
	$6\ddot{b}$

LIQUIDS - I	
Regular 8mm Technicolor cartridge, $2\frac{1}{2}$ minutes, co	plor, Japanese subtitles with accompanying English printed script
Producer: Not available	Date: Not available

Unit of Study: Solids, liquids, gases, solutions

Content: Demonstrates how some solids change to liquids. Indicates that change takes place by dissolving and by heat. Uses color Schilieren method to visually see the changes in density.

Treatment: Factual analysis

Phase I - Specialist Evaluation:

Subject Area: Chemistry

Audience Level: JH, SH, College-Undergrad.

Evaluation Team: PHA, RMB, DB Team Coordinator: EJE Rating of Individual Production Elements:

- Content..... Picture.....3 Audience Suitability......3
Structure.....3 Sound.....na Photo Technique.....4

Overall Rating: Average

Comments: Lack of English subtitles limits usefulness.

LICUIDS - II

Regular ömm Technicolor cartridge, 2 3/4 minutes, color, Japanese aubtitles with accompanying English printed script

Date: Not available Producer: Not available

Unit of Study: Solids, liquids, gases Subject Area: Chemistry

Shows movement of fat particles when milk is Content: Depicts how diffusion is reflected in molecular movement.

dropped into water. Uses model balls to show diffusion.

Audience Level: JH, SH, College-Undergrad. Treatment: Factual analysis

Phase I - Specialist Evaluation:

Team Coordinator: EJE Evaluation Team: PHP, RMB, DB

Rating of Individual Production Elements:

Picture.....3 Audience Suitability.....3 Sound.....na Photo Technique.....4 Structure.....3

Overall Rating: Average

Comments: Lack of English subtitles limits usefulness.



MATTER AND ITS STATES: LIQUIDS - DISSOLVING, MELTING

Super 8mm Technicolor cartridge, 2½ minutes, color, Japanese subtitles, accompanying English printed script.

Producer: Not available

Date: Not available

Subject Area: Chemistry

Unit of Study: Solids, liquids and gases

Content: Demonstrates solids changing to liquids by dissolving and by heat. Uses color Schilleren method to visually

demonstrate the changes in density.

Treatment: Factural analysis

Audience Level: JH, SH, College-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team: PHA, RMB, DB

Team Coordinator: EJE

Rating of Individual Production Elements:

 Picture
 3

 Sound
 na

 Photo Technique
 4

Overall Rating: Average

Comments: Lack of English subtitles limits usefulness.

MATTER AND ITS STATES: MOLECULES AND ATOMS

Super 8mm T-chnicolor Cartridge, 3 minutes, b & w, Japaness Subtitles, accompanying English printed script.

Producer: Not available

Date: Not available

Subject Area: Chemistry

Unit of Study: Solids, liquids and gases

Content: Uses animated models to show how different molecules form new substances when combined. Explains concept of

molecules and atoms in simple terms.

Treatment: Factual analysis

Audience Level: JH, SH, College-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team: PHA, RMB, DB

Team Coordinator: EJE

Rating of Individual Production Elements:

 Overall Rating: Average

Comments: Lack of English subtitles limits usefulness.



MATTER AND ITS STATES: THE NATURE OF GASES

Super 8mm., Technicolor cartridge, 2½ minutes, color, Japanese subtitles, accompanying English printed script.

Producer: Not available

Date: Not available

Subject Area: Chemistry

Unit of Study: Solids, liquids and gases

Content: Shows that diffusion of gases takes place quicker than liquids. Demonstrates that the volume of gas decreases

under pressure.

Treatment: Factual analysis Audience Level: JH, SH, College-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team: PHA, RMB, DB

Team Coordinator: EJE

Rating of Individual Production Elements:

 Picture
 3

 Sound
 na

 Photo Technique
 4

Overall Rating: Average

Comments: Lack of English subtitles limits usefulness.

MATTER AND ITS STATES: THE NATURE OF LIQUIDS

Super 8mm Technicolor cartridge, 2 3/4 minutes, color, Japanese subtitles, accompanying English printed script.

Producer: Not available

Date: Not available

Subject Area: Chemistry

Unit of Study: Solids, liquids and gases

Content: Uses model balls to show diffusion and how it reflects molecular covement. Shows movement of fat particles when

milk is dropped into water.

Treatment: Factual analysis

Audience Level: JH, SH, College-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team: PHA, RMB, DB

Team Coordinator: EJE

Rating of Individual Production Elements:

Overall Rating: Average

Comments: Lack of English subtitles limits usefulness.

ERIC

w	-
	/
MATTER AND ITS STATES: SOLIDS I	,
Super 8mm Technicolor cartridge, 3 minutes, b & w, Japanese subtitles, accompanying English printed script.	
Producer: Not available	Date: Not available
Subject Area: Chemistry	Unit of Study: Solids, liquids and gases
Content: Shows shape of crystals and their growth. Uses photomicrography to show relationships between crystals.	
Treatment: Factual analysis	Audience Level: JH, SH, College-Undergrad.
Phase I - Specialist Evaluation:	\
Evaluation Team: PHA, RMB, DB	Team Coordinator: EJE
Rating of Individual Production Elements:	1
Content4 Audience Suitability3 Structure3	Picture
Overall Rating: Average	
Comments: Lack of English subtitles limits usefulness.	
	•
,	
•	
•	
MATTER AND ITS STATES: SOLIDS TI, RECRYSTALLIZATION	
Super 8mm Technicolor cartridge, 3 minutes, color, Japanese subtitles, accompanying English printed script.	
Producer: Not available	Date: Not available .
Subject Area: Chemistry	Unit of Study: Solids, liquids and gases

Treatment: Factual analysis

Fhase I - Specialist Evaluation:

Evaluation Team: PHA, RMB, DB

Audience Level: JH, SH, College-Undergrad.

Pating of Individual Production Elements:

Team Coordinator: EJE

Overall Rating: Average

Comments: Lack of English subtitles limits usefulness.

Content: Uses time-lapse photography to show the growth of chemical crystals.



	•
MECHANISH OF LIFE	
16mm, 30 minutes. color, English nerration.	
Producer: Sakura Eiga-sha Co., Nishi-Shinjuku 1-22-1 Shinjuku-ku, Tokyo, Japan	Date: 1969
Subject Area: Biology	Unit of Study: Bio-chemistry
Content: Surveys the biochemistry of amino acids. Shows macids on life and life cycle.	wake-up, structure of these acids. Presents the effects of these
Treatment: Illustrated lecture with animation.	Audience Level: SH, College -Undergrad.
Phase I - Specialist Evaluation:	
Evaluation Team: FF, DAH, VRT	Team Coordinator: VET
Rating of Individual Production Elements:	1
Content	Picture
Overall Rating: Good	
Comments: Use of Japanese chemical symbols detra without interpretation by the teacher. students.	cts from the value of the film and makes that portion worthless Content is very specialized but useful to a limited number of
Phase II - In-the-field Evaluation:	
Evaluation Site: HM, FM, SFM	Grade Level: 9th
Teacher Ratings:	
Overall Estimate of Film's Value	
•	
·	,
MODERNIZING JAPANESE AGRICULTURE	
16mm, 29 minutes, color, Japanese narration.	
Producer: Tokyo Films Co., Tokyo, Japan	Date: 1963
Subject Area: Agriculture	· Unit of Study: Geographic aspects
useable land and proportionally large population.	d innovation currently necessary to cope with Japan's lack of Shows reclamation projects, cooperative and dairy farms, fruit experiences utilizing ground, air, and closeup photography.
Treatment: Documentary	Audience Level: Int., JH, SH, College-Undergrad., Adult-Special or Prof., Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: MP, PTe, EFN	Team Coordinator: SG

Evaluation Team: MP, PTe, EFN

Rating of Individual Production Elements:

Audience Suitability......4 Sound.....na Structure.....4 Photo Technique.....4

Overall Rating: Good

Comments: Techniques may have been modern in Japan in 1963, but are quite antiquated here. Might be useful to give U.S. students some idea of agriculture in the U.S. 30 to 50 years ago. Not science-oriented, would be better used in geography class but geographic orientation of the areas shown would be beneficial to the viewer. Good photography.



MOMENTUM

16mm, 16 minutes, b & w, Japanese narration, accompanying English printed script.

Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan

Date: 1965

Subject Area: Physics

Unit of Study: Kinetics

Content: Shows how velocity and mass directly affect momentum. Uses stroboscopic light to observe the periodic locative

changes of objects. Discusses the law of conservation of momentum.

Treatment: Demonstration

Audience Level: JH, SH

Phase I - Specialist Evaluation:

Evaluation Team: FF, KH, WT

Team Coordinator: EJE

Rating of Individual Production Elements:

Content...... Audience Suitability.....2 Picture.....3 Sound.....na Photo Technique.....4

Overall Rating: Average

MONKEYS OF KOSHIMA ISLAND

16mm, 35 minutes, color, Japanese narration, accompanying English printed script

Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan

Date: 1969

Subject Area: Biology

Unit of Study: Animal Behavior

Content: Presents a photographic study, over a long period of time, of the ecology and behavior of the Japanese red-faced macaque on Koshima Island off the shores c. Miyazaki Prefecture. Shows the organization of the monkey society with

its well-established pecking order.

Treatment: Documentary

Audience Level: SH, College-Undergrad., Grad., Adult-Teacher Educ., Special or Prof., Gen.

Phase I - Specialist Evaluation:

Evaluation Team: LPG PWW, TCA, CRC

Team Coordinator: LPG

Rating of Individual Production Elements:

Content.....4 Audience Suitability.....4 Structure......3

Picture.....4 Sound.....na
Photo Technique.....4

Overall Rating: Good

Comments: A good presentation of the social behavior of Japanese macaques for a non-scientific audience. Slightly over-dramatized. Could be improved by shortening to about 25 minutes running time.



MORAINE

16mm, 20 minutes, color, Japanese narration, accompanying English printed script. Producer: Cinesell Japan, Inc., Akasaka 1-9-15, Minato-ku, Tokyo, Japan Subject Area: Geology Unit of Study: Weather, Erosion Content: Portrays the effects of weathering and erosion on rocks. Shows how limestone, metamorphic rock, and sandstone are formed. Explains how a study of the rocks can inform about the circumstances under which the rocks were Audience Level: JH, SH, College-Undergrad. Treatment: Illustrated lecture Phase I - Specialist Evaluation: Team Coordinator: EJE Evaluation Team: JO, KH, WT Rating of Individual Production Elements: Picture.....4 Audience Suitability.....4 Sound.....na
Photo Technique......4 Structure.....4 Overall Rating: Good Comments: Shows process of weathering quite effectively. MOSQUITO 16mm, 22 minutes, color, Japanese nerration. Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan Date: 1966 Subject Area: Biology Unit of Study: Entomology Content: Illustrates the life cycle of a mosquito. Shows the natural environment and reproduction phase. Uses photo micrography to depict the larval stage. Audience Level: College-Undergrad., SH, JH Treatment: Factual analysis. Utilizes time-lapse, close-up, and photomicrography. Phase I - Specialist Evaluation: Evaluation Teem: RLW, DFG, PWB Team Coordinator: WRV Rating of Individual Production Elements: Audience Suitability.....4 Photo Technique...... Structure.....4 Overall Rating: Cood Comments: Cutstanding visual presentation, coverage and organization of content. However, lack of English sound track is a negative factor. Phase II - In-the-Field Evaluation: Grade Level: 6, 10, 11, 12 Evaluation Site: EM, EM, SI Teacher Ratings:



MOUNTAIN CHANGES

16mm, 20 minutes, color, Japanese narration, accompanying English printed script.

Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan

Date: 1969

Subject Area: Geology, Earth Science

Unit of Study: Mountains, Erosion

Content: Explains the stages in the development and aging of mountains found in Japan. Discusses the youth period, maturity period, old age, and plain stages. Uses models to demonstrate erosioand wearing patterns.

Treatment: Factual analysis

Audience Level: JH, SH, College-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team: JO, KH, WT

Team Coordinator: EJE

Rating of Individual Production Elements:

Audience Suitability.....4

Picture.....4 Sound.....na Photo Technique.....4

Overall Rating: Good

Comments: Use of models was tied in very nicely with the real features which they represent. Some sequences appear to be cut short of completion.

MOVEMENT OF MOLECULES

16mm, 20 minutes, color, Japanese narration, accompanying English printed script.

Producer: Gakken Co., Kamilkedai 4-40-5, Ota-ku, Tokyo, Japan

Date: 1966

Subject Area: Physical Chemistry

Unit of Study: Molecular Structure

Content: Uses demonstrations and animation to show molecular movement. Describes molecular movement in solids, liquids, and gases. Presents the effects of pressure and volume on molecular motion. Presents an experiment showing how Boyle's Law is derived using the kinetic molecular theory of gas.

Treatment: Demonstration, using close-up photomicrography

Audience Level: SH, College-Undergrad., Grad.,

Adult-Teacher Educ.

Phase I - Special st Evaluation:

Evaluation Team: CDC, JM, EHS

Team Coordinator: GRB

Reting of Individual Production Elements:

Photo Technique.....5

Overall Rating: Good

Comments: Some formulæ were in Japanese. Could be cut into series of silent single concept films with English subtitles. Excellent description of some aspects of an electron microscope.



MOVEMENT OF THE EARTH 16mm, 23 minutes, b & w, Japanese narration, accompanying English printed script Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan Unit of Study: Earth Motion Subject Area: Earth Science, Geology Content: Presents the theories of Copernicus and observations of Galileo. Considers various proofs for the rotational movement of the earth, deflection of winds by Coriclis force, the oscillations of a Foucault pendulum, annual changes in the transit of stars, and the annual parailax of stars. Audience Level: SH, College-Undergrad. Treatment: Illustrated lecture, using animation Phase I - Specialist Evaluation: Evaluation Team: MG, SIM, EFK, LAH Team Coordinator: MG Rating of Individual Production Elements: Picture.....3 Content.....4 Audience Suitability.....3 Sound.....na Photo Technique.....5 Structure.....3 Overall Rating: Average Comments: Film contains too much technical information and moves too rapidly over it. A summary would have been helpful. The photography is excellent and the models and animation are very good. MOVEMENT OF THE PENDULUM 16mm, 21 minutes, b & w, Japanese narration, accompanying English printed script. Date: 1965 Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Unit of Study: Angular momentum, Pendulum motion Subject Area: Physics Content: Demonstrates various principles involved in pendulum motion, and the implications of varying periods of pendulum movement. Examines the practical applications of these principles, especially in gravitational measurement. Uses time-lapse and stop-action photo techniques to illustrate the various principles. Treatment: Illustrated lecture, using models, animation, time-lapse, stop-action, and close-up photography Audience Level: Jil, SH Phase I - Specialist Evaluation: Team Coordinator: WRV Evaluation Team: RGr, DGr, IT Rating of Individual Production Elements: Picture.....4

Overall Rating: Good

Audience Suitability.....4

Structure.....4

Comments: The film is too long, script awkward to use (both in sentence structure and in relating to visual presentation). Photographic techniques well done and useful.

Sound.....na

Photo Technique.....4



WARRANGE TARRES (2 magle)	
NATIONAL PARKS OF JAPAN (2 reels)	and Honghus Real II - 24 minutes. Part III. Mountains
16mm, Reel I - 32 minutes, Part I, Nature in Kyushu; Part II, Coast of Honshu; color, English narration	
Producer: The Nippon Eiga Shinsha Ltd., Kami-Osaki 2-10-17, Shinagawa-ku, Tokyo, Japan	Date: 1964
Subject Area: Nature and Environmental Studies	Unit of Study: Japan
Content: Depicts, in three parts, the natural characteristics and Japanese islands of Kyushu and Honshu. Shows the world's volcano, Mt. Kaimon, in Kyushu. Depicts in Honshu severe densely populated with gulls, and the inland sea of Seto the mountains forming the Northern Japanese Alps, with the	erosion by waves, the precipitous cliffs of Rikuchu and its over 600 islands. Presents also Mt. Fuji and
Treatment: Illustrated narrative	Audience Level: Pri., Mid., Int., JH, SH, Adult-Gen.
Phase I - Specialist Evaluation - Reel I:	
Evaluation Team: LW, LM, ME,DB	Team Coordinator: EJE
Rating of Individual Production Elements:	
Content5	Picture
Audience Suitability4 Structure4	Sound4 Photo Technique4
Overall Rating: Good	-
eee that there are many mountains in Japan. so	Photo scenes and narration. Film would help young children me of which are volcanic. Shows similarity to places in the would be more appropriate for primary grades. Not very
Phase II - In-the-Field Evaluation - Reel II only	
Evaluation Site: SPM	Grade Level: 8, 9
Teacher Ratings:	
Usefulness as a Teaching Material Appropriateness as Substitute for Experiments or Der	monstrations3
NATURE IN HOKKAIDO	
16mm, 30 minutes, color, English narration	
Producer: Gakken Co., Kamilkedai 4-40-5, Ota-ku, Tokyo, Japan	Date: 1965
Subject Area: Nature and Environmental Studies	Unit of Study: Japan
Content: Shows the many volcanic mountains, lakes, flora and faunt large animals, and the many beautiful flowers that grow area - much of which has not been touched by man.	a of Hokkaido. Glimpses, briefly, the insects, small and there. Shows in a short sequence the natives of this
Treatment: Illustrated lecture	Audience Level: Int., JH, SH, College-Undergrad., Adult-Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: ME, GK, NZ, DB	Team Coordinator: EJE
Rating of Individual Production Elements:	
Content4 Audience Suitability4 Structure4	Picture

Comments: This film will probably be most useful in the subject area of social studies. A guide of names, spellings, and definitions would be very helpful.



Overall Rating: Good

NEW WRAPPING

16mm, 19 minutes, color, Japanese narration, accompanying English printed script Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Date: 1964 Chiyoda-ku, Tokyo, Japan Subject Area: Technology, Industrial Unit of Study: Packaging Content: Explains importance of packing to industrial processes of manufacturing and selling a product. Shows examples of packing techniques and materials. Demonstrates various tests of packaging materials and techniques, as well as new methods of packing carriers for high density transportation of freight. Audience Level: JH, SH, College-Undergrad., Adult-Gen. Treatment: Illustrated lecture Phase I - Specialist Evaluation: Evaluation Team: OJ, CL, RG Team Coordinator: GRB Rating of Individual Production Elements: Picture.....4 Audience Suitability.....4 Sound.....4 Photo Technique.....4 Overall Rating: Good Comments: Unable to find any U.S. film presenting same material. Usatle item -- use may be limited in the classroom. High interest level in evaluation; they talked about the film for some time after screening. NON-DESTRUCTIVE INSPECTION 16mm, 26 minutes, b & w, Japanese narration, accompanying English printed script Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Date: 1963 Chiyoda-ku, Tokyo, Japan Subject Area: Mechanical Engineering Unit of Study: Non-destructive Testing Content: Describes the value of X-rays, ultrasonic waves, and magnetic powder tests in the inspection of industrial products. Explains the advantages of this type of testing over destructive inspection. Demonstrates various machines and methods in carrying out these tests. Audience Level: College-Undergrad., Adult-Special or Treatment: Illustrated lecture Prof. Phase I - Specialist Evaluation: Evaluation Team: DMD, MEK, DB Team Coordinator: EJE Rating of Individual Production Elements: Audience Suitability.....4 Sound.....na Photo Technique......3 Structure.....4 Overall Rating: Average

Comments: Film is too technical for high school use. It is interesting; its value in American public Schools may be gaestioned, but with English narration it may be useful for adult education or technical schools. Timely animation and drawings or examples are used to explain the concept. An added section on the Dye Penibrent process for checking defects would provide another current example.



OBSERVATION OF BOILING 16mm, 15 minutes, b & w, Japanese marration, accompanying English printed script Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2 Date 1965 Chiyoda-ku, Tokyo, Japan Unit of Study: Vaporization Subject Area: Physics Content: Demonstrates and explains the phenomenon of boiling, and illustrates how temperature, pressure, and different molecular structures influence boiling. Uses models to show the molecular activity that takes place prior to and during the boiling of a liquid. Uses slow-motion photography to show the phenomenon of boiling water. Audience Level: Int., JH, SH Treatment: Factual analysis with models and demonstrations using slow-motion, time-lapse and close-up photography Phase I - Specialist Evaluation: Team Coordinator: WRV Evaluation Team: RLW, DRG, JT Rating of Individual Production Elements: Picture.....4 Sound.....na Audience Suitability.....4 Photo Technique.....4 Structure.....4 Overall Rating: Good Comments: Film is too long; black and white photography good, but color would enhance usefulness.

ORE DEPOSITS

16mm, 22 minutes, color, Japanese narration, accompanying English printed script.

Producer: Kyoritsu Eiga Co., Ginza 8-12-15, Chuo-Ku, Tokyo, Japan Date: 1964

Subject Area: Geology, Earth Science Unit of Study: Minerals

Content: Describes how ore deposits were formed in the earth, and how they are located and mined. Presents examples of a

Grade Level: 9, 10, 11, 12

variety of ores. Shows various kinds of ore mines in Japan.

Treatment: Illustrated Lecture Audience Level: Int., JH, SH

Phase I - Specialist Evaluation:

Phase II - In-the-Field Evaluation:

Teacher Ratings:

Evaluation Site: OPI, PHI

Evaluation Team: CDC, JM, EHS Team Coordinator: GRB

Rating of Individual Production Elements:

Overall Rating: Fair

Comments: Possibly, if the geographic references were removed, the value for U.S. students might be improved.

Printed English script is most difficult to follow. Use of black and white graphics in a color film is questionable. Scale not always provided on close ups, and form sometimes poor. Attempts to cover too much; needs reorganization. Disproportionate amount of footsge used on the various types of deposits, e.g., hydrothermal in comparison to sedimentary and metsmorphic. Many sequences not self-explanatory but impressionistic and need explanation. Diagrams would be useful if translated. Might be useful for a small segment of geology instruction; could be shortened to single concept length.

Phase II - In-the-Field Evaluation:

Evaluation Site: MM, PA Grade Level: 5

Teacher Ratings:



	•
THE ORIGIN OF RAIN	
16mm, 24 minutes, b & w, Japanese narration, accompanying printed so	cript and audiotape cassette in English.
Producer: Kyoritsu Eiga Co., Ginza 8-12-15, Chuo-ku, Tokyo, Japan	
	• •
Subject Area: Meteorology	Unit of Study: Weather
Content: Surveys the processes which contribute to the pheonmenon of and condensation in the atmosphere. Explains changes of the pressure, and demonstrates the need for the presence of disordinates condense.	temperature due to increases and decreases of barometric
Treatment: Illustrated lecture	Audience Level: JH, SH, College Undergrad.
Phase I Specialist Evaluation:	
Evaluation Team: AFM, DFG, WC	Team Coordinator: FWB
Rating of Individual Production Elements:	
Content	Picture
Overall Rating: Fair	
	ss, due to the identification of this device with riment helps explain adiabatic temperature changes.
Phase II - In-the-Field Evaluation:	•
Evaluation Site: MM	Grade Level: 5
Teacher Ratings:	
Overall Estimate of Film's Value Usefulness as a Teaching Material	
	,

OSCILLATION

VTR 1", Sony, 20 minutes, b & w, English narration.

Date: Not available Producer: NHK International, Tokyo, Japan

Unit of Study: Mechanics Subject Area: Physics

Content: Explains the principle of oscillation as motion obtained by projecting a uniform circular motion vertically on a plane perpendicular to the plane of motion. Shows that motion arises from the dynamic stability proportional to the distance from the center. Uses a pendulum, tracing apparatus on glass plate, ball affixed to wheel, and strobe photography to illustrate this principle.

Audience Level: SH, College Undergrad. Treatment: Illustrated lecture, with models

Phase I - Specialist Evaluation:

Team Coordinator: SG Evaluation Team: CB, RKH, WHE, EFN

Rating of Individual Production Elements:

Picture......3 Audience Suitability.....3 Structure......3

Overall Rating: Fair

Comments: Good sets of experiments, but executed rather sloppily. Tries to be an encyclopedia. Makes the false assumption that the student has learned. Poor lip-sync. Inadequate editing. Lack of definition on

photographic work.



VTR ½", S	Sony, 20 minutes, b & w, English narration	
Producer	: NHK International, Tokyo, Japan	Date: Not available
Subject	Area: Physics	Unit of Study: Mechanics
Content:	linear motion and uniform acceleration. Utilizes le	of parabolic motion. Depicts parabolic motion as a uniform cture and experiments such as: strobe photography of falling erence with a falling object, and other mechanical illustrative
Treatmen	t: Illustrated lecture, with models	Audience Level: SH, College-Undergrad.
Phase I	- Specialist Evaluation:	•
	Evaluation Team: CB, RKH, WHE, EFN	Team Coordinator: SG
	Rating of Individual Production Elements:	
	Content	Picture
	Overall Rating: Fair	
	knows proper colloquialisms. Lip sync is	content or method. Narration should be done by physicist who poor and the vocabulary is difficult for high school audience.
	knows proper colloquialisms. Lip sync is	poor and the vocabulary is difficult for high school audience
	knows proper colloquialisms. Lip sync is	poor and the vocabulary is difficult for high school sudience
16mm, 28	knows proper colloquialisms. Lip sync is ON OF WETTING S minutes, color, Japanese narration, accompanying Engl	is poor and the vocabulary is difficult for high school audience
16mm, 28	knows proper colloquialisms. Lip sync is	poor and the vocabulary is difficult for high school sudience
16mm, 28	Knows proper colloquialisms. Lip sync is (ON OF WETTING) S minutes, color, Japanese narration, accompanying Engli	is poor and the vocabulary is difficult for high school audience
16mm, 28 Producer Subject	Knows proper colloquialisms. Lip sync is ON OF WETTING S minutes, color, Japanese narration, accompanying Engle: Iwanami Productions, Inc., Misski-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Area: Physics	is poor and the vocabulary is difficult for high school suddence. ish printed script. Date: 1969 Unit of Study: Wetting mankind. Explains how inkmakers treat soot so it will mix
16mm, 28 Producer Subject Content:	knows proper colloquialisms. Lip sync is (ON OF WETTING minutes, color, Japanese narration, accompanying Engl :: Iwanami Productions, Inc., Misski-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Area: Physics	is poor and the vocabulary is difficult for high school suddence. ish printed script. Date: 1969 Unit of Study: Wetting mankind. Explains how inkmakers treat soot so it will mix
16mm, 28 Producer Subject Content:	knows proper colloquialisms. Lip sync is ON OF WETTING minutes, color, Japanese narration, accompanying Engl The Iwanami Productions, Inc., Misski-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Area: Physics Discusses the importance of the wetting phenomena to with water. Shows what causes wetting in things lik	ish printed script. Date: 1969 Unit of Study: Wetting mankind. Explains how inkmakers treat soot so it will mix te duck feathers, leaves, tires, etc.
16mm, 28 Producer Subject Content:	Knows proper colloquialisms. Lip sync is CON OF WETTING S minutes, color, Japanese narration, accompanying Engl : Iwanami Productions, Inc., Misski-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Area: Physics Discusses the importance of the wetting phenomena to with water. Shows what causes wetting in things like: Factual analysis	ish printed script. Date: 1969 Unit of Study: Wetting mankind. Explains how inkmakers treat soot so it will mix te duck feathers, leaves, tires, etc.
16mm, 28 Producer Subject Content:	Knows proper colloquialisms. Lip sync is ON OF WETTING Siminutes, color, Japanese narration, accompanying Engling: Iwanami Productions, Inc., Misski-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Area: Physics Discusses the importance of the wetting phenomena to with water. Shows what causes wetting in things like it: Factual analysis Specialist Evaluation:	ish printed script. Date: 1969 Unit of Study: Wetting mankind. Explains how inkmakers treat soot so it will mix te duck feathers, leaves, tires, etc. Audience Level: Int., JH, SH, College Undergrad.
16mm, 28 Producer Subject Content:	Knows proper colloquialisms. Lip sync is CON OF WETTING S minutes, color, Japanese narration, accompanying Engl : Iwanami Productions, Inc., Misski-cho 2-21-2, Chiyoda-ku, Tokyo, Japan Area: Physics Discusses the importance of the wetting phenomena to with water. Shows what causes wetting in things lik it: Factual analysis - Specialist Evaluation: Evaluation Team: PHA, FF, DB	ish printed script. Date: 1969 Unit of Study: Wetting mankind. Explains how inkmakers treat soot so it will mix te duck feathers, leaves, tires, etc. Audience Level: Int., JH, SH, College Undergrad.

Comments: The value of the film is limited in physics because the topics covered can usually be better presented with demonstrations in class. Some examples used may not be easily related to U. S. students' background of experience. A good introductory-type film, giving a basis for more exact considerations. The material follows a good sequence, from ancient to new uses of the same phenomenon, with the physical basis considered in between. The film does not over extend itself; it is appropriate and fitting for this type of introduction.

Phase II - In the Field Evaluation:

Evaluation Site: ENd Grade Level: 7

Teacher Ratings:



PHOTOSYNTHESIS

1 10mm, 20 minutes, color, Japanese narration, accompanying English	printed script.
Producer: Gakken Co., Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan	Date: 1968
Subject Area: Biology, Botany	Unit of Study: Photosynthesis
Content: Demonstrates the three conditions needed for photosynth stomata of a leaf and explains their function. Uses mi to light and temperature.	esis: light, temperature, and carbon dioxide. Shows croscopic view of chlorophyll and explains how it reacts
Treatment: Illustrated lecture using time-lapse, close-up and photomicrographic techniques	Audience Level: SH, College-Undergrad., Grad., Adult-Special or Prof.
Phase I - Specialist Evaluation:	
Evaluation Team: DKH, LW, DB	Team Coordinator: EJE
Rating of Individual Production Elements:	
Content4 Audience Suitability3 Structure4	Picture 5 Sound na Photo Technique 5
Oversl1 Rating: Good .	
Comments: Graphic portrayal of ADP and ATP information available.	fed into Krebs cycle is done better than in most media
Phase II - In-the-Field Evaluation:	
Evaluation Site: SPM, E0	Grade Level: 10
Teacher Ratings:	
Overall Estimate of Film's Value	
	,
PLANKTON IN SWAMPS AND LAKES	
16mm, 21 minutes, color, Japanese narration, accompanying English	printed script.
Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1963
Subject Area: Biology, Botany	Unit of Study: Limnology
Content: Informs about the structure and activities of plankton a feeding, movement systems and life sycles. Relates the as its effect on water.	and its relations to the environment. Shows types, size, effects of predators and weather on plankton, as well
Treatment: Illustrated lecture	Audience Level: SH, College-Undergrad., Grad., Adult-Teacher Educ., Special or Prof.,
Phase I - Specialist Evaluation:	Gen.
Evaluation Team: CHo, PTr, VRT	Team Coordinator: VRT
Rating of Individual Production Elements:	
Content	Picture5 Soundna Photo Technique5
Overall Rating: Excellent	
Comments: English narration script contains a few error	rs.
Phase II - In-the-Field Evaluation:	
Evaluation Site: ENd	Grade Level: 12
Teacher Ratings:	
Overall Estimate of Film's Value	



1			
PLANTS	AND	THEIR	EVOLUTION

16mm, 21 minutes, color, Japanese narration, with accompanying printed script and audiotape cassette in English.

Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan

Date: 1967

Subject Area: Biology, Botany

Unite of Study: Plant Evolution

Content: Discusses the fact that most plants evolved during the Mesozoic age. Explains the theory regarding algae, mosses, fibro-vascular ferns, formation of seeds, and angiosperms. Uses photomicrography as well as regular photography

to show examples of various plants.

Treatment: Illustrated lecture

Audience Level: JH, SH, College-Undergrad.,

Adult-Teacher Educ.

Phase I - Specialist Evaluation:

Evaluation Team: WNC, CDW, LW, DB

Team Coordinator: EJE

Rating of Individual Production Elements:

Audience Suitability.....4 Structure.....4 Picture.....4 Sound.....ne
Photo Technique.....4

Overall Rating: Good

Comments: The film is very well photographed. The use of the fossil records was spotty and gave incomplete story.

The musical background adds much to the film. The filming of the angiosperm was extraordinary;

however, more consideration might have been given to such processes such as adaptive radiation and other interactions of populations with the environment.

PLANTS OF NASU HEIGHTS

16mm, 37 minutes, color, Japanese narration, accompanying English summary

Seibutsu Eiga Kenkyujo, Marunouchi 3-3-1, Shin-Tokyo Bldg., Chiyoda-ku, Tokyo, Japan Date: 1966

Subject Area: Biology, Botany

Unit of Study: Ecology

Content: Shows plants growing on the Nasu Heights, which are situated on the northeastern margin of the Musashino Plain of Japan. Presents regetation during four seasons of the year, along with a botanical explanation of the plants, chiefly flowering species, with regard to their taxonomic position, distribution and ecology. Depicts witch-hazel, skunk cabbage, dog-tooth violet, Heloniopsis, Sargent's therry, Arctic iris, Japanese primrose, and gold band lily.

Treatment: Illustrated narrative

Audience Level: JH, SH, College-Undergrad., Grad., Adult-Special or Prof., Gen.

Phase I - Specialist Evaluation:

Evaluation Team: JCPo, RHi, JH

Team Coordinator: JCPo

Rating of Individual Production Elements:

Audience Suitability.....3 Structure......3 Picture.....3 Sound.....na Photo Technique.....4

Overail Pating: Average

Comments: Useful for information about Japanese flora, but of limited value for students in the U.S. Would protably be useful to special interest groups such as garden clubs or in a course in place taxonomy.



,	
/	
POEM OF THE YOUNG HEAPTS	
16mm, 55 minutes, b & w, Japanese narration, accompanying English pr	inted script.
Producer: Hamada Production, Inagi-machi Momura 16, Minamitama-gun, Tokyo, Japan	Date: 1969
Subject Area: Health Science	Unit of Study: Handicapped Persons

Content: Tells the story of Kiyoshi Hasegawa and his desire to meet his life's goals even though blind. Explains the considered role of the blind in Japan as one of a massagist; however, Hasegawa wants a life of music. Records,

over a 12-year period, the events which help him to reach his goal.

Treatment: Documentary Audience Level: Adult Teacher Educ., Special or Prof.

Phase I - Specialist Evaluation:

Evaluation Team: MW, DAZ, DWH Team Coordinator: EJE

Rating of Individual Production Elements:

Overall Rating: Average

Comments: Outstanding example of film documentary. Maintains a high interest level. Asset to available films, provided it had an English soundtrack. Chief value is the information conveyed concerning educational process in Japan. Teacher's work with a student for six years and a blind person's antipathy for the career of masseur is noteworthy. Each professional will find this film beneficial. Language barrier makes optimum use of film difficult and less effective than if narration were in English.

POLARIZATION OF LIGHT

VTR 3", Sony, 20 minutes, b & w, English n rration

Producer: Not available

Date: Not available

Subject Area: Physics

Unit of Study: Optics

Content: Introduces the polarizing plate which allows only light waves oscillating in one plane to pass through. Shows also that a similar phenomenon occurs in light reflected at a certain angle from a reflective surface. Uses such experiments and demonstrations as double image calcite crystal, 90° polarizing plates, water tank reflection, weather symbols (polarized), and polarizing plates over TV camera lens.

Treatment: Demonstration lecture using models and animation

Audience Level: SH

Phase I - Special Evaluation:

Evaluation Team: CB, RKH, WHE, EFN

Team Coordinator: SG

Rating of Individual Production Elements:

Overall Pating: Poor

Comments: Teaching methodology is not compatible with that used in U.S; it does not challenge the student to think for himself. Lip sync is poor and distracting. Superficial, confusing treatment with discrepancies in terminology. Experiments are presently used in U.S. high school classes.



PRINCIPLE OF ALTERNATING UURRENT MOTOR

16mm,	25	minutes,	р	å	w,	Japanese	narration,	accompanying	Engl	ish	printed	script
-------	----	----------	---	---	----	----------	------------	--------------	------	-----	---------	--------

Producer: Iwanami Productions, Inc., Miseki-cho 2-21-2,

Chiyoda-ku, Tokyo, Japan

Dete: 1962

Subject Area: Physics

Unit of Study: Magnetism, Induction

ş

Content: Explains the process of conversion of electrical energy into mechanical energy through use of the magnetic field. Compares the function of a motor and a generator. Uses experiments and models for purposes of explanation.

Treatment: Illustrated lecture using models

Audience Level: JH, SH, College-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team; WSt, JBr. ..

Team Coordinator: WSt

Rating of Individual Production lements:

Audience Suitability.....3 Picture.....4 Sound.....na Photo Technique.....4

Overall Rating: Average

Comments: Demonstrations are simple and effective. Structure of film is variable and monotonous in sections, therefore, effecting clarity of presentation.

PRINCIPLE OF METAL CUTTING FOR PRACTICE

16mm, 22 minutes, b & w, Japanese narration, accompanying English printed script

Producer: Dentsu Motion Picture, Tsukiji 1-7-13,

Date: 1962

Chuo-ku, Tokyo, Japan

Sab lect Area: Industrial Education

Unit of Study: Cutting Tools

Content: Illustrates effects of various methods of cutt ng metals. Shows, in extreme close ups, how several types of metals react to a cutting edge. Presents the effects of different cutting tools as they act on metals.

Treatment: Illistrated lecture

Audience Level: SH, College-Undergrad., Adult-Teacher Educ., Special or Prof.

Phase I - Specialist Evaluation:

Evaluation Team: RH, LY, VPT

Team Coordinator: VRT

Rating of Individual Production Elements:

Content.....4
Audience Suitability.....4 Structure.....4

Sound.....na Photo Technique.....5

overall Pating: Good

Comments: Excellent close-up photography. Color footage would probably be more effective.

PROPERTY OF GASES		
Regular 8mm Technicolor ca	rtridge, 2½ minutes, color, Japanese subt	itles, secompanying English printed script
Producer: Not available		Date: Not Available
Subject Area: Chemistry		Unit of Study: Gases
Content: Shows that diffuunder pressure.	sion of gases takes place quicker than li	quids. Demonstrates that the volume of gas decreases
Treatment: Factual analys	Ls	Audience Level: SH, College Undergrad.
Phase I - Specialist Evalu	ation:	
Evaluation Team:	PHA, RMB, DB	Team Coordinator: EJE
Rating of Indivi	dual Production Elements:	
Audience Su	4 Ltability	Picture
Overall Rating:	Average	
	ese characters on film cause distraction.	Films are already available in English which do a
Decte	, Job.	
		1
	•	
RADIO WAVES		
	panese narration, accompanying printed so	wrint and audiotane cassette in English
•	hi 2-8, Chuo-ku, Tokyo, Japan	Date: 1967
Subject Area: Physics		Unit of Study: Electricity
with electrical v	aves. Illustrates spark discharge and re	amples of uses, of radio waves. Compares magnetic waves egeneration over a distance, and relates this to radio cowaves, and points out need for satellites or other
Treatment: Illustrated led photography	ture using animation and close-up	Audience Level: Int., JH, College-Undergrad.
Phase I - Specialist Evalua	tton:	
Evaluation Team:	FDS, DRG, PWB	Team Coordinator: APM
Rating of Individ	ual Production Elements:	,
Content	4	Picture4
Audience Sui	tability4 3	Soundna Photo Technique4
Overall Rating:	lood ,	
classr match. þave t prior	oom. It utilizes techniques of illustrat. In actual classroom use, the film was we be familiar with basic 1. Sperties of wa knowledge. Although there are similar U.	tion that is simply 'oo involved to perform in the ion which the classroom teacher could probably not ell-received, especially by girls. The class would vea since the brief treatment of them in film assumes S. films of higher quality and entertainment value, ain which suggests a usefulness for this film.
Phase II - In-the-Field/Eva	luation:	
Evaluation Site:	SPM, CHM, SI	Grade Level: 12
Teacher Ratings:		
•	mate of Film'a Value	2
Haefulress &	s a Teaching Materialess as Substitute for Experiments or Demon	

ERIC

16 22			
rum, 52	minutes, co	lor, English marration	
Producer	: Cinesell - Tokyo, Ja	Japan, Inc., Akasaka 1-9-15, Minato-ku, pan	Date: 1967
Subject A	Area: Biolo	ВУ	Unit of Study: Ornithology
Content:	mountain #	and explains the life habits of the Ralcho, lopes near the summit of the Japanese Alps. egg-laying, incubation, and protection of t	a Japanese ptarmigan. Shows the natural habitat on isolated Explains the nature of foraging, molting, courtship, nest-he young.
Treatment	t: Document	ary using close-up photography	Audience Level: SH, College-Undergrad., Adult Special
Phase I	- Specialist	Evaluation:	or riot., dell.
	Evaluation	Team: KC, DRG, APM	Team Coordinator: PWB
	Rating of	Individual Production Elements:	
	Audie	nt4 nce Suitability3 ture4	Picture
	Overall Ra	ting: Good	
	Comments:	younger. Music too dramatic for topic. E. cuts in spring scenes, and abrupt shift from	g for maximum effectiveness with high school students or nglish narration is not helpful. There are some abrupt om day to night to day is distracting. Excellent close. Could be improved if edited and cut. The film drags en more slowly.
rats			1
	minutes, b 8	& w, Japanese narration, accompanying Englis	sh printed script
	`	Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1966
	Area: Biolo		Unit of Study: Mammels
Content:	cnaracteri	etice which nermit rats to gnaw holes throug	rats live, breed, and thrive. Describes the physical gh walls, to traverse water pipes, utility wires, and narrow Shows their nightly foraging through garbage and refuse. sease, and as vicious carnivores.
Treatment		ary using models and close-up photography	Audience Level: Pri., Mid., Int., JH, SH, College- Undergrad., Adult-Special or Prof.
Phase I -			- 1
	Specialist	Evaluation:	· /
			Team Coordinator: PWB
	Evaluation	Evaluation:	
	Evaluation Rating of Conte	Evaluation: Team: RLW, DRG, WRV	
	Evaluation Rating of Conter Audier	Evaluation: Team: RiW, DRG, WRV Individual Production Elements: nt	Team Coordinator: PWB Picture
	Evaluation Rating of Content Audier Struct Overall Rating	Evaluation: Team: RLW, DRG, WRV Individual Production Elements: nt	Team Coordinator: PWB Picture
Phase II	Evaluation Rating of Conter Audier Struct Overall Rational Comments:	Evaluation: Team: RLW, DRG, WRV Individual Production Elements: nt	Picture
Phase II	Evaluation Rating of Conter Audier Struct Overall Rational Comments:	Evaluation: Team: RLW, DRG, WRV Individual Production Elements: nt	Picture
Phase II	Evaluation Rating of Conter Audier Struct Overall Ration Teacher Face	Evaluation: Team: RLW, DRG, WRV Individual Production Elements: nt	Picture
Phase II	Evaluation Rating of Content Audier Struct Overall Recomments: - In-the Figure Evaluation Teacher Fa	Evaluation: Team: RLW, DRG, WRV Individual Production Elements: nt	Picture

RESPIRATION: IN AIR AND WATER 16mm, 16 minutes, color, Japanese narration, accompanying printed script and audiotape cassette in English Date: 1968 Producer: Gakken Co., Kamiikedai 4-40-5, Ota-ku, Tokyo, Japan Unit of Study: Physiology Subject Area: Zoology Content: Depicts how respiration is a vital function of all animals. Shows exemples of animals' dependence on respiration and the various oxygen exchange processes involved in respiration. Compares the respiration of land and sea animals. Audience Level: Int., JH, SH, College-Undergrad. Treatment: Illustrated lecture Phase I - Specialist Evaluation: Evaluation Team: WBe, JWH, ES Team Coordinator: GRB Rating of Individual Production Elements: Picture.....4 Audience Suitability......3 Sound.....na Photo Technique......4 Structure.....4 Overall Rating: Average Comments: Makes references to a land crab. Most viewers are familiar only with sea crabs and will be unaware that land crabs have lungs. A few points mentioned are left unexplained which may cause confusion. SALMON IN JAPAN 16mm, 27 minutes, color, English narration Date: 1964 Producer: Cinesell Japan, Inc., Akasaka 1-9-15 Minato-ku, Tokyo, Japan Unit of Study: Fish Subject Area: Biology Content: Portrays life cycle of a salmon, including close-up photography of female preparing her nest and laying eggs. Shows techniques of artifical spawning of solmon in Japan. Explains problems and research in this important Japanese industry. Audience Level: Mid., Int., JH, SH, College-Undergrad., Adult-Teacher Educ., Gen. Treatment: Documentary using close-ups

Phase I - Specialist Evaluation:

Evaluation Team: OG, JDH, DB Tesm Coordinator: EJE

Rating of Individual Production Elements:

Sound..... Photo Technique.....5 **Structure.....**5

Overall Pating: Excellent

Comments: Some of the fish culture techniques shown seem antiquated by more modern standards, especially fish feeding. Excellent photography of spawning salmon. Biological facts presented are accurate.



SCIENCE OF SILK 16mm, 19 minutes, color, English narration Date: 1968 Producer: Toto Cine Productions, Shintomi 2-4-12, Mitsui Bldg., Chuo-ku, Tokyo, Japan Unit of Study: Textiles Subject Area: Pagineering/Technology Content: Tells the story of silk - from worm to finished product. Explains, scientifically, its formation and luster. Uses photomicrography to show the two filament breakdown of a silk thread. Audience Level: JH, SH, College-Undergrad., Adult-Treatment: Documentary using animation Teacher Educ., Gen. Phase I - Specialist Evaluation: Team Coordinator: EJE Evaluation Team: WTS, MAS, DB Rating of Individual Production Elements: Picture.....4 Content.....4 Audience Suitability.....4 Photo Technique.....4 Structure.....4 Overall Rating: Excellent Comments: Good for fabrics and textile courses. Good backgroundfilm to be used in conjunction with lecture or other demonstrations. Limited use in biology; may have more application in home economics courses. SECRET IN THE HIVE 16mm, 32 minutes, color, English narration and accompanying English printed script Date: 1962 Producer: Sakura Eiga-sha Co., Nishi-Shinjuku 1-22 1 Shinjuku-ku, Tokye, Japan Unit of Study: Entomology Subject Area: Biology Content: Traces the life cycle of the bee. Reviews typical daily activities in a hive. Explains the making of the queen bee, swarming, feeding habits, and the role of each member of the hive. Relates experiments with the bees' ability to find food and method of communicating the find. Andience Level: Int., JH, SH, College-Undergrad., Grad., Adult-Teacher Educ., Gen. Treatment: Factual analysis using close-up photography Phase I - Specialist Evaluation: Team Coordinator: RD Evaluation Team: RN, JS, NZe, RD . Rating of Individual Production Elements: Picture......5 Audience Suitability.....5 Structure.....5 Overall Rating: Excellent Comments: Excellent film in every respect. Content development is paced well, with special photographic techniques to present unusual view of hive life. A long film which does not overburden the audience with information, but might be edited into a shorter version. Best used as an overview or review of content. Phase II - In-the-Field Evaluation: Grade Level: 1,8,9, Senior High Evaluation Site: FI, SPM Teacher Ratings: Overall Estimate_of Film's Value......

ERIC

SELECTED LACTOBACTILUS ACIDOPHILUS 16mm, 18 minutes, color, English narration Date: 1965 Producer: Tokyo Cinema Co. Inc., Kanda Saragadai 2-1, Chiyoda-ku, Tokyo, Japan Subject Area: Biology Unit of Study: Microbiology Content: Shows through cinematography and time-lapse cinemicrography the action of <u>Lactobacillus</u> acidophilus (Shirota strain) in culture media, in tissue cultures, and in the presence of bile and pathogenic bacterial organisms. Treatment: Illustrated lecture Audience Level: SH, College-Undergrad., Grad., Adult-Teacher Educ. Phase I - Specialist Evaluation: Team Coordinator: VRT Evaluation Team: HPe, PF, VRT Rating of Individual Production Elements: Picture.....5 Audience Suitability.....5 Sound......3 Photo Technique.....5 Gverall Rating: Excellent Comments: Photography is cutstanding, close-ups and time-lapse sequences of special value. Japanese background music not universally acceptable. SEMICONDUCTORS 16mm, 25 minutes, color, Japanese narration, accompanying English printed script Producer: Piken Motion Picture Co., Shimbashi 4-10-1, Date: 1969 Minato-ku, Tokyo, Japan Unit of Study: Solid State Electronics Subject Area: Physics Content: Explains basic functional principles and practical application of semiconductors. Discusses PN and PNP Junctions and how they make vectification and amplification possible. Demonstrates practical uses of semiconductors in the form of transistors, integrated circuits, photo-electric cells and SMC and MFS diodes. Audience Level: SH, College-Undergrad. Treatment: Illustrated lecture Phase I - Specialist Evaluation: Team Coordinator: EJE Evaluation Team: FJH, DPL, DWH Rating of Individual Production Elements: Picture.....5 Audience Siltatility.....5 Sound.....ns Strict ire.....5 (verall Pating: Excellen

Commen's: Very relevant and up-to-date. English translation is satisfactory with a few minor changes; it needs review by an electronics scientist. History of development introduces subject and implications for fiture use. Diagrams and models are well balanced and pacing is appropriate, one of the best films of this nature seen. Excellent example of what film can do to clarify a point.



SNOW DAMAGE

16mm, 29 minutes, color, Japanese narration, accompanying English printed script Producer: Kajima Motion Pictures Co., Akasaka 6-5-13 Minato-ku, Tekyo, Japan Unit of Study: Stress Subject Area: Engineering Content: Depicts several scenes of severe snow accumulation. Shows the effects of snow upon roads, power lines, buildings and other structures, as well as the general country-side in Japan. Outlines steps taken to overcome the problems which can be caused by snow. Audience Level: SH. College-Undergrad., Adult-Special or Treatment: Illustrated lecture using time-lapse photography Prof., Gen. Phase I - Specialist Evaluation: Team Coordinator: VRT Evaluation Team: PTr, RCB, VRT Rating of Individual Production Elements: Sound.....na Audience Suitability......3 Photo Technique.....5 Structure.....4 Overall Rating: Fair Comments: Difficult to evaluate effectiveness since the topic of the film does not fit into U. S. curriculum. It is well done and informative, end might be of significant interest to engineering and architectural students. SOLAR RADIATION 16mm, 24 minutes, color and b & w, Japanese narration, accompanying English printed script Date: 1966 Producer: Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan Unit of Study: Astronomy Subject Area: Physics Content: Describes the process of measuring solar energy. Discusses types of solar radiation and solar phenomena, such as aurora, corona, and sunspots. Presents the equipment used to make such measurements. Treatment: Animation, photomacrography, photomicrography, time-Audience Level: JH, SH, College-Undergrad. lapse photography Phase I - Specialist Evaluation: Team Coordinator: GRB Evaluation Team: MD, PTa, NN Rating of Individual Production Elements: Picture.....3 Content......3 Sound.....na
Photo Technique.....4 Audience Suitability.....4 Overall Rating: Average Comments: Covers too much material, but could be used as a series of short single concept films. Animation techniques are of poor quality. Evidence for motion of sun's surface not separated from effects due to rotation of a solid sphere. The "spectra" discussion does not point out the complication of absorption by the earth's atmosphere. Phase II - In-the Field Evaluation: Grade Level: Junior High Evaluation Site: SI Teacher Ratings: Usefulness as a Teaching Material..... Appropriateness as Substitute for Experiments or Demonstrations......4



SOLUTION (3 cartridges)	
Super 8mm Technicolor cartridges, 32 minutes each, color, silent	, Japanese subtitles
Producer: Not available	Date: Not available
Subject Area: Chemistry	Unit of Study: Solutions
Content: 1. Uses model balls to show how molecules work and mix they dissolve and mix in a liquid solution. 2. Shows how some materials break down and dissolve in 3. Compares materials that do and do not break down in	a liquid solution and others do not.
Treatment: Illustrated lecture	Audience Level: JH, SH
Phase I - Specialist Evaluation:	
Evaluation Team: PHA, FMB, DB	Team Coordinator: EJE
Rating of Individual Production Elements:	
Content	Picture4 Soundna Photo Technique4
Overall Rating: Average	
Comments: Japanese subtitles make objectives hard to id	lentify. Suitable as introductory material.
THE SPEED OF CHEMICAL REACTIONS	
16mm, 25 minutes, color, Japanese narration, accompanying English p	
Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan	Date: 1968
Subject Area: Chemistry	Unit of Study: Energy
Content: Shows that speed of chemical reactions can be varied by i substance into fine particles to increase exposed atoms, atoms collide more often. Demonstrates that all chemical molecules.	and by other means of making the reacting molecules and

Treatment: Illustrated lecture, with use of models and cinemicrography and time-lapse.

Audience Level: JH, SH, Gollege-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team: MAD, RMet, JH

Team Coordinator: MG

Rating of Individual Production Elements:

Picture.....5 Sound.....na
Photo Technique.....4

Overall Rating: Good

Comments: Excellent use of models and animation. Very good photography. Subject matter presented in an interesting and clear manner.



SPIRMING A CENTURY	
16mm, 28 minutes, color, Japanese narration, accompanying English pr	rinted script
Producer: Toho Cine Productions, Shintomi 2-4-12, Mitsui Bldg., Chuo-ku, Tokyo, Japan	•
Subject Area: Engineering/Technology	Unit of Study: Textiles
Content: Traces the founding of the textile industry in Japan 100 graph views of various processes in spinning yarns. Depicts including a view from inside a lapping machine. Illustratively as briefly introducing man-made fibers, and showing the state of the state o	tes lapping, carding, drawing-out, and spinning, as
Treatment: Illustrated lecture	Audience Level: SH, College-Undergrad., Adult-Teacher Educ., Special or Prof.
Phase I - Specialist Evaluation:	
Evaluation Team: ZA, MIM, PMB	Team Coordinator: APM
Rating of Individual Production Elements:	
Content5	Picture5
Audience Suitability5	Soundne Photo Technique5
Structure5	Photo Technique
Overall Rating: Excellent	
to show as clearly and beautifully. Unusual s	strate, but available American films and other aids fail cenes in the mills, in the machines, close-ups, etc., that weak and the very rough English translation detracts. should be a "best seller." Probably best used with occases.
SPRINGTIME 16mm, 19 minutes, color, Japanese narration, accompanying printed a Producer: Kyoritsu Eiga Co., Ginza 8-12-15, Chuo-ku, Tokyo, Japan	
	Unit of Study: Ecology
Subject Area: Biology Content: Portrays springtime and many activities in nature during nests, the changes in temperature and the sun's rays from children, and motivates them to take inquiring action.	that sesson. Shows moths and tadpoles, birds building
Treatment: Factual analysis using close-up and stop-action photography	Audience Level: Pri., <u>Mid</u> ., Int.
Phase I - Specialist Evaluation:	
Evaluation Team: LW, BJ, DB	Team Coordinator: EJE
Rating of Individual Production Elements:	
Content	Picture3 Soundns Photo Technique4
an madd Daddama Cood	

Overall Rating: Good

Comments: The scene of children collecting specimens in the field was excellent. The transportation to the school and cultural glimpses were very good. The springtime ecology theme was excellent. Labelling on parts of flower anatomy was complex in explanation and concept. English soundtrack with this film would be valuable. Might prove helpful to leave some of the Japanese soundtrack so that U. S. children could hear the spoken Japanese language.

Phase II - In-the-Field Evaluation:

Evaluation Site: EO

Grade Level: 2

Teacher Ratings:



STEEL FOR PROSPERITY 16mm, 31 minutes, color, Japanese narration, accompanying Japanese printed script Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2 Date: 1968 Chiyoda-ku, Tokyo, Japan Subject Area: Engineering/Technology Unit of Study: Steel processing Content: Depicts process of manufacturing steel with modern techniques and equipment such as computers. Shows how steel is fabricated into structural materials for buildings, elevated highways, bridges, trains and ships. Treatment: Factural Analysis Audience Level: JH, SH, Adult-Special or Prof., Gen. Phase I - Specialist Evaluation: Evaluation Team: LGH, MSF Team Coordinator: MSF Rating of Individual Production Elements: Picture.....5 Audience Suitability.....4 Sound.....na Structure.....4 Photo Technique.....5 Overall Rating: Excellent Comments: A well-planned production with excelient photography, color and editing. A vivid demonstration of the many facets of the steel industry. Film is enhanced by use of lively, modern music. STRENGTH OF MATERIALS 16mm, 25 minutes, b & w, Japanese narration, accompanying English printed script Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Date: 1965 Chiyoda-ku, Tokyo, Japan Unit of Study: Materials Testing Subject Area: Engineering Content: Demonstrates the role of science in determining the strength of materials subject to tension, compression, buckling, shearing, twisting, and bending. Discusses terms such as elastic deformation, plastic deformation, strain, elastic coefficient, Poisson's Ratio, and bending force. Uses photo-elasticity tests to show points of strain when forces are applied. Treatment: Factual analysis using close-up photography and Audience Level: SH, College-Undergrad. models Phase I - Specialist Evaluation: Team Coordinator: EJE Evaluation Team: JEN, MEK, DB Rating of Individual Production Elements: Sound.....na
Photo Technique.....4 Audience Suitability.....4 Structure.....3

Structure.....

Overall Rating: Average

Comments: Very technical for high school level. Useful for adult education and vocational training. Only touches lightly on technicalities. The point on stress concentration, as a causative factor in mechanical breakdown, is well made.



STRUCTURE AND GERMINATION OF RICE SEEDS

Regular 8mm Technicolor cartridge, 21 minutes, color, silent, accompanying English printed script

Producer: Not available

Date: Not available

Content: Uses time-lapse photography to show the germination and growth of rice seeds. Shows views of the rice seed, its

Unit of Study: Botany

embryo and endosperm. Depicts root and leaf growth.

Treatment: Factual analysis Audience Level: Int., JH, SH

Phase I - Specialist Evaluation:

Subject Area: Biology

Evaluation Team: NW, PT, NW, DB Team Coordinator: EJE

Rating of Individual Production Elements:

Overall Rating: Fair

Comments: Film is satisfactory for illustrating specific events, but explanations about what is happening internally are lacking.

THE STRUCTURE OF FISH

16mm, 16 minutes, color, Japanese narration, accompanying printed script and audiotape cassette in English

Producer: Kyoritsu Eiga Co., Ginza 8-12-15, Chuo-ku, Tokyo, Japen Date: 1968

Subject Area: Zoology Unit of Study: Vertebrates

Content: Examines the physiological structure of fish. Utilizes a variety of fish to show structural variations. Ascribes

structural difference as a result of evolution.

Treatment: Illustrated lecture Audience Level: Mid., Int., JH

Phase I - Specialist Evaluation:

Evaluation Team: WBe, JWH, RHS Team Coordinator: GRB

Rating of Individual Production Elements.

Overall Rating: Good

Comments: Well organized and paced.



STRUCTURE OF MATERIALS

16mm, 22 minutes, color, Japanese narration, accompanying English printed script

Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2,

Chiyoda-ku, Tokyo, Japan

Date: 1963

Subject Area: Physics

Unit of Study: Crystallography

Content: Depicts the structure of crystals. Details the design and physical makeup of such materials. Stresses the place

of crystals in solid state electronics.

Treatment: Illustrated lecture

Audience Level: SH, College-Undergrad.

Phase I - Specialist Evaluation:

Evaluation Team: OPQ, RCB, VRT

Team Coordinator: VRT

Rating of Individual Production Elements:

 Picture
 .2

 Sound
 ...

 Photo Technique
 ...

Overall Rating: Average

Comments: Because the illustrations merely reinforce the narration, the narration must be understood clearly.

The Japanese narration cannot be understood in this country and the English narration script provided was poorly done.

THE STUDY OF CRICKETS

16mm, 20 minutes, color, Japanese narration, accompanying English printed script

Producer: Toel Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan

Date: 1968

Subject Area: Biology

Unit of Study: Entomology

Content: Shows life cycle of a cricket, its environment and habits. Explains how crickets make sound, what they eat, and their desire to remain in dark, shadowy places. Uses close-up photography to show differences between male and female, including scenes of the remale depositing her eggs.

Treatment: Factual analysis

Audience Level: Mid., Int.

Phase I - Specialist Evaluation:

Evaluation Team: LW, DwH, MS

Team Coordinator: EJE

Rating of Individual Production Elements:

Overall Rating: Average

Comments: Outstanding example of photographic study. Valuable as an introduction to concepts. Pacing is somewhat slow.

ERIC

;	
THE SUN AND PLANTS - PHOTO-PERIODISM	
16mm, 20 minutes, color, Japanese narration, accompanying English printed script	
Producer: Iwanami Productions, Inc., Misaki-cho 2-21-2, Date: 1969 Chiyoda-ku, Tokyo, Japan	
Subject Area: Botany Unit of Study: Plant Growth	
Content: Shows, under experimental conditions, how varying the amount of light each day affects the growth and flowering plants. Depicts how some, such as the hrysanthemum, flower under a short-light day; others, such as spinach, best under a long-light day. Illustrates how the flowering of Chrysanthemums is controlled in nurseries by which the length of the light day to produce blooms at various times throughout the year. Applies same method to controlled in the different varieties of rice so that both flower at the same time thereby permitting cross-fertile tion and production of new strains. Portrays the adverse effects of new highway lighting on adjacent rice or in which growth is retarded by 24-hour illumination.	riower arying ontrol liza-
Treatment: Illustrated lecture using time-lapse photography Audience Level: Int., JH, SH, College-Undergrad., Adult-Gen.	
Phase I - Specialist Evaluation:	
Evaluation Team: SR, JBr, WSt Team Coordinator: WSt	
Rating of Individual Production Elements:	
Content	
Overall Rating: Excellent	
Comments: Well organized and clear presentation with excellent photography. Suitable for stimulating discuss of factors affecting plant growth and development.	ion
$\sqrt{}$	
THINGS AND THEIR WEIGHT (3 cartridges)	
Super 8mm Technicolor cartridges, 32, 31 and 22 minutes, color, silent, Japanese subtitles	
Producer: Not available Date: Not available	
Subject Area: Physics Unit of Study: Weight	
Content: 1. Shows that no matter how one is weighed on a scale, be it one foot, two feet, or sitting, he weighs the	same.

Demonstrates that when transferring weight from one scale to another, one will increase the same arount that the other will decrease.

Demonstrates the effect of buoyancy upon the weight of an object. Shows that a weight due to buoyancy of e liquid, increases the weight of that liquid by an equal amount.
 Demonstrates that if a baby drinks 150 grams of milk, it will increase in weight by 150 grams.

Treatment: Illustrated lectures

Audience Level: Mid., Int., JH

Phase I - Specialist Evaluation:

Evaluation Team: LW, KH, DB

Team Coordinator: EJE

Rating of Individual Production Elements:

Audience Suitability.....4 Structure.....

Plcture.....4 Sound.....na
Photo Technique......3

Overall Rating: Good

THINKING IN SETS	
16mm, 20 minutes, b & w, Japanese narration, accompanying English	printed script
Producer: Gakken Co., Kamilkedai 4-40-5, Ota-ku, Tokyo, Japan	Date: 1969
Subject Area: Mathematics	Unit of Study: Sets
Content: Shows through animation the important points to be learn	ned concerning the basic mathematical concept of "sets."
Treatment: Animated presentation	Audience Level: Int., JH, Adult-Teacher Educ.
Phase I - Specialist Evaluation:	
Evaluation Team: LPG, RTH, LCJ	Team Coordinator: LPG .
Rating of Individual Production Elements:	•
Content4 Audience Suitability3 Structure3	Picture
Overall Rating: Average	·
Comments: Since few films deal with concept of "sets"the is needed and film requires an English sound	
Phase II - In-the-Field Evaluation:	
Evaluation Site: FCV	Grade Level: 9, 10
Teacher Ratings:	•
Overall Estimate of Film's Value	,l
,	
,	. •
TO BUILD GIGANTIC SHIPS	
16mm, 29 minutes, color, English narration	<u>.</u>
Producer: Shi Taguchi Productions Co., Mishi-Shimbashi 3-3-1, Shimbashi Bldg., Minato-ki, Tokvo, Japan	Date: 1968
Subject Area: Engineering	Unit of Study: Snipbuilding
Content: Depicts the planning, engineering, designing and constru Negasaki. Shows the techniques of heavy construction.	ction of ships in Japan at Mitsubushl Shipyards in Presents modular shipbuilding techniques.
Treatment: Promotion film, using models, multiple image snots, protomicrography and photomscrography	Addlence Level: JH, SH, College Undergrad., Grad., Adult-Special or Prof., Gen.
Phase I - Specialist Evaluation:	
Evaluation T-am: IG, DO, FS	Team Coordinator: GRB
Pating of Individual Production Elements:	

Overall Rating: Excellent

Comments: Not suited for general science audience; most useful for engineering and possibly for business students. Would be of interest to a general audience.

Sound.....3
Photo Technique.....5



TOKYO MOVES SKYWARDS	
16mm, 35 minutes, color, English narration	
Producer: Kajima Motion Pictures Co., Akasaka 6-5-13, Minato-ku, Tokyo, Japan	Date: 1967
Subject Area: Engineering	Unit of Study: Construction, Commercial
Content: Shows step-by-step planning and construction of Tokyo' developing components, including the steel beams and c to make constructions safe and earthquake-proof.	s first skyscraper. Portrays role of technology in concrete. Discusses problems of weather and steps taken
Treatment: Factual analysis	Audience Level: JH, SH, College-Undergrad., Adult-Special or Prof., Gen.
Phase I - Specialist Evaluation:	
Evaluation Team: LWa, JFG, DB	Team Coordinator: EJE
Rating of Individual Production Elements:	
Content	Picture
Overall Rating: Good	•
Comments: As a training film, lacks detailed descript A good film for outlining the phases of con containing the blueprints and designing pro	tion of important problems and techniques of construction. istruction. Would be helpful if film had snother part, oblems of this building
Phase II - In-the-Field Evaluation:	
Evaluation Site: MM, WM	Grade Level: 6
Teacher Ratings:	
Overall Estimate of Film's Value	
TORRENTIAL BAINS	·
16mm, 28 minutes, color, Japanese narration, accompanying Englis	sh printed script
Producer: Kajima Motion Pictures Co., Akasaka 6-5-13, \ Minato-ku, Tokyo, Japan	Date: 1969
Subject Area: Meteorology	Unit of Study: Weather
Content: Explains how causes of torrential rains are being stud being developed. Uses weather maps and models to explesfects upon people of disasters caused by torrential safety for mankind from this destructive force.	ain now science is coping with these rains. Totals the
Treatment: Factual analysis	Audience Level: JH, SH
Phase I - Specialist Evaluation:	
Evaluation Team: KD, LW, ALT	Team Coordinator: EJE
Rating of Individual Production Elements;	
Content4 Audience Suitability4 Structure4	Picture

Overall Rating: Average

97

Comments: Did very good job showing cloud formations; however, it might be better for U.S. students if U.S. information had been used. Showed methods used in finding unknown information. Weather maps were difficult to follow.

	Ì	
UNDERSEA	MEADONS	
16mm, 31	minutes, color, Japanese narration, accompanying Eng	lish printed script
Producer	: Tokyo Cinema Qo., Inc., Kanda Surugadai 2-1, Chiyoda-ku, Tokyo, Japan	Date: 1967
Subject A	Area: Biology	Unit of Study: Marine Biology
Content:	Depicts the practices and procedures of sea farming measures employed to increase yields.	, relating to fish, molluses, and algae. Shows conservation
Treatment	: Documentary	Audience Level: Int., JH, SH, College-Undergrad.
Phase I	- Specialist Evaluation:	
	Evaluation Team: JCRo, RHi, JG	Team Coordinator: JCRo
	Rating of Individual Production Dlements:	
	Content	Picture4 Soundna Photo Technique4
,	Overall Rating: Average	
	Comments: An informative presentation with conside available in U. S. films.	rable human interest value. Contains material not readily
Phase II	- In-the-Field Evaluation:	
•	Evaluation Site: EMd	Grade Level: 11, 12
	Teacher Ratings:	
	Overall Estimate of Film's Value	
		•
WAVE		,
16mm, 22	minutes, b & w, Japanese narration, accompanying Eng	lish printed script
Producer:	Toei Co., Kyobashi 2-8, Chuo-ku, Tokyo, Japan	Date: 1967
Subject A	Area: Physics	Unit of Study: Wave Motion
Content:	other parts of the body. Discusses terms such as the	rtain part of a body with the movement transferred to the ransverse, longitudinal, compressional, the principle of tes wave theory in sound, light, and physical waves, such is
Treatment	: Illustrated lecture	Audience Level: SH, College-Undergrad., Adult-
Phase I -	Specialist Evaluation:	Teacher Educ.
	Evaluation Team: JB, WT, DB	Team Coordinator: EJE
	Rating of Individual Production Elements:	
	Content4 Audience Suitability4 Structure4	Picture4 Soundna Photo Technique5
	Overall Rating: Good	
	Comments: Film quality is normal for film made undo impaired by having covered too many topic	or these types of conditions. The film's usefulness is in wave motion.



Phase II - In-the-Field Evaluation:

Teacher Ratings:

Evaluation Site: MM, SPM, CI

Grade Level: 5, 7, 8, 12

WAVE MOTION VIR 2", Sony, 20 minutes, b & w, English narration Producer: NHK International, Tokyo, Japan Unit of Study: Wave Motion Subject Area: Physics Content: Depicts wave theory through longitudinal and lateral waves, transmission of energy, and reflection and refraction Provides the relationship between frequencies, wavelengths and velocities. Utilizes experiments such as: weighted springs released in a series to illustrate the optical illusion of a wave and simple vibration; Chide's wave-making rod, tuning fork, projected waves from water tanks, and foreign particles added to the water to better enable the viewer to see lack of lateral movement in a wave. Audience Level: SH, College-Undergrad. Preatment: Illustrated lecture Phase I - Specialist Evaluation: Team Coordinator: SG Evaluation Team: CB, RKH, WHE Rating of Individual Production Elements: Picture.....3 Sound.....2 Audience Suitability.....3 Photo Technique......3 Structure.....3 Overall Rating: Fair Comments by reviewers: "Too many things too fast, without requiring student involvement. Narrator tells all."

"Attempts to cover too much material. Results are told first, then demonstrated." "Discrepancy in use of terms. Diffraction should be explained in terms of interference." "Poor lip-sync; conflict in methodology; preponderance of lecture." WEATHER FORECASTING FOR TOMORROW 16mm, 33 minutes, color, English narration Date: 1969 Producer: Cinesell Japan, Inc., Akasaka 1-9-15, Minato-ku, Tokyo, Japan Unit of Study: Weather Subject Area: Meteorology Content: Discusses importance of many people and nations cooperating so that accurate weather prediction can take place. Tells importance of weather charts, observation, locations, ships, and radar in forecasting. Shows role of automatic machinery hooked up to computers in getting out accurate reports in a minimum amount of time. Audience Level: Mid., Int., JH, SH Treatment: Factual analysis Phase I - Specialist Evaluation: Team Coordinator: EJE Evaluation Team: JCB, RMB, DB Rating of Individual Production Elements:

Overall Rating: Good

Comments: Good film for earth science study. Informs people how weather information is taken and how computers are used in weather analysis. Does not give any facts or basic principles of science to help the viewer to understand weather.



WHALING IN THE ANTARCTIC OCEAN

16mm, 29 minutes, color, Japanese narration, accompanying Engli	sh printed script
Producer: Toei Co., Kyobashi 2-8, Chuc-ku, Tokyo, Japan	Date: 1967
Subject Area: Biology	Unit of Study: Marine Mammals
Content: Portrays the Japanese whaling industry. Depicts men the Antarctic Ocean. Discusses conservation of whales	performing their tasks with whaling equipment and ships in as a natural resource through international agreement.
Treatment: Documentary	Audience Level: Int., JH, SH, College-Undergrad., Adult-Gen.
Phase I - Specialist Evaluation:	
Evaluation Ferm: TG, DO, FS	Team Coordinator: GRB
Rating of Individual Production Elements:	
Content	Picture5 Soundna Photo Technique5
Overall Rating: Good	
Comments: Good overview of whaling and conservation film about a not overly important area of	principles applicable to the whaling industry. An enjoyable interest in junior high curriculum.
Phase II - In-the-Field Evaluation:	_
Evaluation Site: MM	Grade Level: 5
Teacher Ratings: Overall Estimate of Film's Value	
Appropriateness as Substitute for Experiments of	r Demonstrations
WHEN YOU MIX - SEE WHAT WILL HAPPEN	
16mm, 28 minutes, color, Japanese narration, accompanying Engli	ish printed script
Producer: Riken Motion Picture Co., Shimbashi 4-10-1, Minato-ku, Tokyo, Japan	Date: 1968
Subject Area: Chemistry	Unit of Study: Mixtures
Content: Shows the phenomena of mixing substances. Includes Brownian motion, and the Tyndall phenomenon of recognand others, as in pollution, are harmful.	the effect of having different amounts of surface area, nizing colloids. Discusses how some mixtures are useful
Treatment: Illustrated lecture	Audience Level: Mid., Int., JH, SH
Phase I - Specialist Evaluation:	
Evaluation Team: PHA, LW, DWH	Team Coordinator: EJE
Rating of Individual Production Elements:	
Content	Picture4 Soundna Photo Technique4
Overall Rating: Good	•
the film could be used in a number of cou starting point for further discussion. It well done. Examples were interesting, hor obvious completion. It is simply an info	unfamiliar, general to specific. Examples are such that rese types. It gives examples which could be used as a f modified, it might be much more valuable. Technically wever, it doesn't appear to have a specific direction or rmative experience; however, its great spread of topic and ferent content is suitable make it unsuitable for almost



16mm, 20	minutes, b & w, Japanese narration, accompanying Engl:	sh printed script
Producer	: Iwanami Productions, Inc., Misaki-cho 2-21-2, Chiyoda-ku, Tokyo, Japan	Date: 1964 -
Subject /	Area: Physics	Unit of Study: Crystallography
Content:		structure of crystals. Uses film and models to show how rystals. Discusses importance of computers in calculating
Treatment	t: Illustrated lecture	Audience Level: SH, College-Undergrad.
Phase I	- Specialist Evaluation:	
	Evaluation Team: RJH, DPL, DWH	Team Coordinator: EJE
	Rating of Individual Production Elements:	•
	Content	Picture
	Overall Rating: Average	
	the film. Builds on previous knowledge. ference, crystals, etc., the film would be	acquaintance with chemistry is necessary to benefit from If seen by a class without previous knowledge of inter-
	photography is not so good. Explanations	via models only partly successful, e.g., Brogg's Law.
	photography is not so good. Explanations	via models only partly successful, e.g., Brogg's Law.
	photography is not so good. Explanations	via models only partly successful, e.g., Brogg's Law.
	photography is not so good. Explanations	via models only partly successful, e.g., Brogg's Law.
	photography is not so good. Explanations	via models only partly successful, e.g., Brogg's Law.
	photography is not so good. Explanations	via models only partly successful, e.g., Brogg's Law.
	photography is not so good. Explanations	via models only partly successful, e.g., Brogg's Law.
<u>Yeast</u>	photography is not so good. Explanations	via models only partly successful, e.g., Brogg's Law.
	photography is not so good. Explanations	via models only partly successful, e.g., Brogg's Law.
16mm, 27	photography is not so good. Explanations	via models only partly successful, e.g., Brogg's Law. Date: 1963
16mm, 27 Producer	minutes, color, English narration : Nihon Sangyo Eiga Center, Hirakawa-cho 2-2-13	via models only partly successful, e.g., Brogg's Law.
16mm, 27 Producer Subject	minutes, color, English narration : Nihon Sangyo Eiga Center, Hirakawa-cho 2-2-13 Zenkoku Ryokan Kaikan, Chiyoda-ku, Tokyo, Japan Area: Microbiology Analyzes the properties of yeast. Informs about the	Via models only partly successful, e.g., Brogg's Law. Date: 1963
16mm, 27 Producer Subject	minutes, color, English narration : Nihon Sangyo Eiga Center, Hirakawa-cho 2-2-13 Zenkoku Ryokan Kaikan, Chiyoda-ku, Tokyo, Japan Area: Microbiology Analyzes the properties of yeast. Informs about the	Date: 1963 Unit of Study: Fermentation use of yeast in relation to fermentation industries and

Phase I - Specialist Evaluation:

Evaluation Team: RCB, HP, VRT Team Coordinator: VRT

Rating of Individual Production Elements:

Overall Rating: Good

Comments: British narration, coupled with the drop in volume at the end of sentences, is difficult to follow. Evaluators' feelings were mixed about the value of the film.

Phase II - In-the-Field Evaluation:

Evaluation Site: BeH Grade Level: College-Undergrad.

Teacher Ratings:



AMERICAN SCIENCE FILM ASSOCIATION United States - Japan Science Film Exchange Project FILM EVALUATION FORM *

Appendix On

1.	Film Title:	ilm	Num	ber		•
2.	Broad Subject or Content Area Classification (e.g. Biology)					.
3.	Specific Unit of Study within Subject Area (e.g. Ecology, and/or Anima	ıl ha	bit	s)		
4.	Purpose (Complete by <u>writing</u> one or more purposes for this film. Also how effectively the film achieves the stated purpose.)		e b			
	a) To inform (e.g. facts and understandings	Low				igh
	of basic principles, etc.)	1	2	3	4	5
	b) To change or persuade (e.g. appreciations, attitudes, etc.)	1	2	3	4	5
	c) To teach how to (e.g. skills, critical thinking, etc.)	1	2	3	4	5
	d) Other	1	2	3	4	5 ·
5.	Basic Utilization (Complete by rating how effective the film would be specified utilizations below)		•	<u>h</u> o		
	•	Low 1		3		igh 5
	a) To introduce topic	1	2	3		
	c) To summarize or conclude topic		2		4	
	d) To explain small segments of a topic		2	3	4	5
6.	Recommended Audience Levels (Check all appropriate levels and circle the	re mo	8t	app	rop	riate
	Pre, Pri, Mid, Int, JH, SH, Co1 - Undergrad	,	Co1	. -	Gra	d
	Adult - Teacher Educ, Adult - Special or Professional, Adult	- Ge	ner	a1		
		Low	1		H	ligh .
7.	Content (e.g. is accurate, important, useful, up-to-date, etc.)	1	2	3	4	5
8.	Audience Suitability (e.g. meets the needs and interests of intended group, is appropriate in length, vocabulary, pacing)		2			
9.	Structure (e.g. has organization, editing, continuity, length, etc).		2	3	4	5
10.	color, etc.)	1	2	3	4	5
11.	consider voice fidelity, lip sync., etc., only if in English)	1	2	3	4	5
12.		use	:d -			
	Photo reduitque(3)	1	2	3	4	5
		1	2	3	4	5
		1	2	3	4	5
13.	If any of the above items, 6 through 12, have been rated by circling a please indicate the degee to which the film's usefulness has been by circling the appropriate word or phrase below:	21142-		''2'' d		
	a) not at all; b) only slightly; c) significantly; d) serior	ıs 1y.				
(OVE	Developed # Develo	l by:	tob	er,	19	69

14. Treatment (briefly describe the method used in treating the content - e.g. cartoon style, dramatization, factual analysis, illustrated lecture, documentary, etc.)

15.	Narration - if in Japanese:	T	R	ati		iah
	How useful is film without English narration?	Low 1	2	3	4	igh 5
	How beneficial is accompanying printed or recorded English script?	1	2	3	4	5
	in your opinion, the value of reproducing this film with an English sound track	1	2	3	4	5
16.	Overall Estimate of Film's Value (if narration is in Japanese, include in your consideration the value of the accompanying printed or recorded English script which would need to be used instead of the Japanese narration)	1	2	3	4	5
17.	Evaluator's Comments (please refer to and <u>cite specific examples</u> from the include omission(s) of information normally covered in the scope up film, errors in content, existence of bias, lack of balance, outstand limitation(s), etc.)	nder	tak	en .	DУ	tnis
18.	Specific Reactions by Science Teacher (<i>rate</i> the following general state the film and its applicability to your teaching situation)	emen'	ts	con	cer	ning
	a) Usefulness as a teaching material	1	2	3	4	5
	b) Appropriateness of length	1	2	3	4	5
* <i>'</i>	where the film would be most useful (i.e. curriculum oriented) d) Appropriateness for use in class (circle one of the following-	1	2	3	4	5
	to replace; to supplement) materials produced for the same purpose which are available and of which you are aware If possible, please specify title(s), producer, and type (e.g. 16mm film, filmstrip, etc.) of material.	1	2	3	4	5
	e) Appropriateness of the difficulty level regarding the content and/or concept(s) in relation to the intended audience	1	2	3	4	5
	f) Usefulness as an instructional tool as verified by observed			_	1	5
	student behavior		2		4	5
	g) Appropriateness as a substitute for experiments or demonstrations.	_	4	J	•	•



h)	Practicability (i.e. perience, and inter				2 3 4	5
	Appropriateness for ex of experience	panding and enrichin	ng students' spher	e 1	2 3 4	5
j)	Rating, if applicable, based on follow-up individual intervie	of film's value in activity (e.g. per: w with students, etc.	formance test and/	or	2 3 4	5
	If possible, please particular follow-u	provide a copy of a procedure used.	test used or a bri	ef descripti	on of th	ie
k)	Suggested utilization- (e.g. independent duplicating an expe	study, motivate cla	ating into science	teaching as example	for	
•				× ~		
			•			•
	`).	A .			
19. Stud	ents' ReactionsFor us special science intere	st groups, etc.				\$ 7
	(Please ask the follow to respond more than o convenient for youe.	nce to each questio g. merely request	n. The tally may a show of hands)	pe nanacea, c	n ang m	2,11161
a)	Which word or group of the film presented was facilitated	the content and/or	es how you feel ab concepts in such a	out this que way that un	stion derstand	ling
	PARTIALLY	Number of boys Number of boys Number of boys	Number of Number of Number of	girls girls		
b)	Which word or group of what you were, or h	words best express ad, studied	es how you feel th	ne film integ	rated wi	ith
	EXTREMELY WELL	Number of boys	, Number of			
		Number of boys		girls		
c)	The word or group of w	ords which best exp			t matte	r
	covered in this fil	Number of boys	: Number of	girls		
	ORDINARY	Number of boys	 '	girls		
	EASY	Number of boys	; Number of	girls		
d)	The word or group of wyour interest is	rords which best exp		•		
	•	Number of boys		girls	•	•
	PARTIALLY	Number of boys	- · · · · · · · · · · · · · · · · · · ·	girls		
	HARDLY AT ALL	Number of boys	, Number of	girls		
(OVER)		104				

e) Which word or group o outlook (philosoph	f words best expresses ho y) toward the topic of th	ow you feel your understanding and his film was expanded and/or enriched .	,
GREATLY	Number of boys	Number of girls	
PARTIALLY	Number of boys		
HARDLY AT ALL	Number of boys	Number of girls	
f) Which word or group o about Japanese cul	f words best expresses ho ture and customs has been	w you feel that your understanding expanded and enriched	
GREATLY	Number of boys;	Number of girls	
PARTIALLY_	Number of boys	Number of girls	
HARDLY AT ALL	Number of boys	Number of girls	
Grade level(s) of studen	ts in group from which al	bove responses were tallied	
Total number of students	in group from which above	ve responses were tallied	
Significant student commen	ts after viewing this fil	lm.	
			,
Evaluator's name			
Evaluator's Departmen	t and Major Area of Speci	alization (and/or Teaching)	
Evaluator's School _			
School Address	(Street)	(City and State)	
Data of avaluation	(007.000)	tood and state,	

i

20.

EVALUATION TEAM COORDINATORS

APM	Al P. Mizell, Indiana University
DG	David Garloff, University of Missouri
EJE	Ernie J. Ediger, Lane Intermediate Education District, Oregon
GRB	Gerald R. Brong, Washington State University
JCRo JDL	John C. Rosemergy, Ann Arbor Public Schools, Michigan J. David Lockard, Science Teaching Center, University of Maryland
LPG	Leslie P. Greenhill, The Pennsylvania State University
MG MSF	Mel Golman, Science Teaching Center, University of Maryland Malcolm S. Ferguson, American Science Film Assn., Bethesda, Maryland
PWB	Phillip W. Bugg, Indiana University
RD	Robert Davis, University of Illinois, Chicago
SG	Stephen Geer, University of Minnesota
VRT	Vern R. Thomas, Bemidji State College, Minnesota
WRV WSt	William R. Van Keuren, Indiana University Warren Sturgis, Mental Health Materials Center, New York, New York



EVALUATION SPECIALIST TEAM MEMBERS: PHASE I OF EVALUATION PROCESS

ABB A. B. Butler, Washington State University Arnold L. Taylor, Eugene Public Schools, Oregon ALT APM Al P. Mizell, Indiana University ARM A. R. McBirney, University of Oregon BD Betsy Davison, Mental Health Materials Center, New York, New York BG Bruce Gelvin, University of Missouri BJ Bonnie Jacobson, Eugene Public Schools, Oregon BM Bernard Metzger, University of Missouri C. Boeck, University of Minnesota CB CDC C. D. Campbell, Washington State University C. David White, University of Oregon CDW CH Charles Hall, Bemidji State College, Minnesota Charles Holt, Bemidji State College, Minnesota СНо CRC C. R. Carpenter, The Pennsylvania State University; University of Georgia Charles W. Rutschky, The Pennsylvania State University CWR Daniel A. Holm, Bemidji State College, Minnesota DAH DAZ Donald A. Zahler, Regional Program for the Blind, Eugene, Oregon DB Dan Burkhart, Lane Intermediate Education District, Oregon Dot Gelvin, University of Missouri DG Donald Grayson, Mitchell High School, Indiana DGr DH Darrold Hanna, Springfield High School, Oregon DKH D. K. Hague, University of Oregon DMa Dan Manien, Washington State University Dave Mosley, Washington State University DMo Dennis Myers, Washington State University DMy D. M. Dickinson, Lane Community College, Oregon DMD Don Orlich, Washington State University \mathbf{p} DP Donald Peting, University of Oregon Donald Pochyly, University of Illinois Medical Center, Chicago DPo Donald P. Leslie, Eugene Public Schools, Oregon DPL Donald R. Garren, Mitchell High School, Indiana DRG Dalton Seeling, Bemidji High School, Minnesota DS Doyle W. Hinman, Eugene Public Schools, Oregon DWH Edward F. Kaminski, Science Teaching Center, University of Maryland EFK EFN Edward F. Newren, University of Minnesota EHS Eugene H. Semingson, Washington State University Ernie J. Ediger, Lane Intermediate Education District, Oregon EJE EWN Eugene W. Nester, University of Washington



EVALUATION SPECIALIST TEAM MEMBERS (continued)

FDS FF FS	Frank D. Stekel, Wisconsin State University, Whitewater Foyle Fields, Eugene Public Schools, Oregon Frank Street, Washington State University
GB GC GCW GK GRB	Gloria Boyle, University of Missouri Glenn Crosby, Washington State University George C. Washington, Jackson State College, Nississippi Gay Kampa, Cottage Grove Public Schools, Oregon Gerald B. Brong, Washington State University
HB HML HP HPe HRB HW	Harold Bordus, Bemidji State College, Minnesota Harold M. Lynch, University of Missouri Herb Pruitt, Lane Community College, Oregon Harold Peters, Bemidji State College, Minnesota H. Richard Blank, University of Oregon Herbert Wisner, University of Oregon
JAG JEr JCR JCRO JDD JDH JEN JEG JH JM JN JO JS JT JWH	John A. Gaughan, University of Missouri Judith Bregman, Polytechnic Institute of Brooklyn, New York J. C. Burg, University of Oregon J. Christofer Reid, University of Missouri John C. Rosemergy, Ann Arbor Public Schools, Michigan J. D. Decker, University of Missouri James D. Hall, Oregon State University J. David Lockard, Science Teaching Center, University of Maryland J. E. Neely, Lane Community College, Oregon J. F. Greig, Willamette High School, Oregon Jeffrey Gore, Ann Arbor Public Schools, Michigan Jullie Herman, Arundel Junior High School, Odenton, Maryland James Migaki, Washington State University Joe Mills, Washington State University Jack Neher, Mental Health Materials Center, New York, New York Jack O'Donnell, South Eugene High School, Oregon James Scholton, University of Illinois Joan Tierney, Indiana University James W. Hardie, Washington State University
KB KC KD KH	Kermit Benson, Bemidji State College, Minnesota Kathy Collier, Indiana University Ked Dejmal, Eugene Public School, Oregon Ken Howland, North Eugene High School, Gregon



EVALUATION SPECIALIST TEAM MEMBERS (continued)

```
Lee Ann Henning, Science Teaching Center, University of Maryland Lors C. Jansson, The Pennsylvania State University
LAH
LCJ
        L. E. Phipps, Oakridge Public Schools, Oregon
LEP
        Lyle Grimmer, Bemidji State College, Minnesota
LG
        Lloyd G. Herman, National Institutes of Health, Bethesda, Maryland
LGH
LM
        Lesley Matson, Eugene Public Schools, Oregon
LPG
        Leslie P. Greenhill, The Pennsylvania State University
        Lyle Wilhelmi, Eugene Public Schools, Oregon; University of Oregon
LW
LWa
        Lawrence Watt, General Contractor, Eugene, Oregon
        Larry Yetter, Bemidji State College, Minnesota
LY
        M. A. Dietz, Science Teaching Center, University of Maryland
MAD
        Mary Ann Smith, University of Oregon
MAS
        Miles Dresser, Washington State. University
MD
        Melva Ellingson, Eugene Public Schools, Oregon
ΜE
        Merrill E. Kellogg, Sheldon High School, Eugene, Oregon
MEK
        Mary Frank Wynn, University of Missouri
MFW
        Mel Golman, Science Teaching Center, University of Maryland
MG
        Mary L. Mizell, Indiana University
MIM
MΡ
        Milo Peterson, University of Minnesota
MRM
        Margaret R. Miles, University of Missouri
        M. Shirk, Eugene Public Schools, Oregon
MS
        Malcolm S. Ferguson, American Science Film Association, Bethesda, Maryland
MSF
        Marvin Wikerson, Lane Intermediate Education District. Oregon
MW
        Napoleon Bryant, Jr., Indiana University
NB
        Norm Nelson, Washington State University
NN
        Neil Zèlie, Cottage Grove Public Schools, Oregon
NZ
        Nancy Zega, University of Illinois
NZe
        Orval Greer, Oregon Fish Commission
OG
        Oliver Johnson, Washington State University
OJ ·
        Oscar Loreen, Washington State University
OL.
        Oren P. Quist, Bemidji State College, Minnesota
OPQ
        Phillip C. McGovern, Williamette High School, Oregon
PCM
        Patrick Frikey, Bemidji State College, Minnesota
PF
        Peter H. Andersen, University of Oregon
PHA
        Pierre LePere, Bemidji State College, Minnesota
PL
        Phyllis Talus, South Eugene High School, Oregon
\mathbf{PT}
        Paul Tanzer, Washington State University
PTa
       Phil Teske, U. S. Office of Education, Washington, D. C.
PTe
        Pat Trihy, Bemidji State College, Minnesota
PTr
        Pamela Wilson, Mental Health Materials Center, New York, New York
PW
        Phillip W. Bugg, Indiana University
PWB
        Paul W. Welliver, The Pennsylvania State University
PWW
```



EVALUATION SPECIALIST TEAM MEMBERS (continued)

```
Robert C. Baker, Bemidji State College, Minnesota
RCB
        Robert Davis, University of Illinois Medical Center, Chicago
RD
        R.E. Mamela, Churchill High School, Eugene, Oregon
REM
        Richard Gebhardt, Washington State University
RG
        Robert Grayson, Indiana University
RGr
        Richard Hanys, Bemidji State College, Minnesota
RH
        Royce Hill, Huron High School, Ann Arbor, Michigan
RHi
        Richard J. Higgins, University of Oregon
RJH
        Robert J. Jonas, Washington State University
RJJ
        R. K. Hobbie, University of Minnesota
RKH
        Robert L. Winders, Indiana University
RLW
        Robert Marienfeld, University of Missouri
RM
        Roland Meyer, Lane Community College, Oregon
RMe
        Richard Metcalf, J. F. Kennedy High School, Silver Spring, Maryland
RMet
        Roland Miller, Bemidji State College, Minnesota
RMi
        R. M. Barber, Churchill High School, Eugene, Oregon
RMB
RN
        Robert Nelson, University of Illinois
        Robert Ryan, University of Missouri
RR
        Ralph T. Heimer, The Pennsylvania State University
RTH
        Robert Williams, South Eugene High School, Oregon
RW
        Robert W. Domese, Bemidji State College, Minnesota
RWD
        Story Dever Middleton, Science Teaching Center, University of Maryland
SDM
        Sam Robins, Screenwriter, Brooklyn, New York
SR
        Thomas C. Arnold, State College Area High School, Pennsylvania
TCA
        Thomas Gornall III, Washington State University
TG
        Trude Smith, Washington State University
TS
        Tom Walmsley, University of Missouri
TW
        Virg Erickson, Eugene Public Schools, Oregon
VE.
        Van Michelson, University of Minnesota
WV
        Vern R. Thomas, Bemidji State College, Minnesota
YRT
        William Bardwell, Washington State University
WB
        Walter Becker, Washington State University
WBe
        William Cuttill, Indiana University
WC.
        Walter H. Erskine, University of Minnesota
WHE
        Walter Kilpatrick, Mental Health Materials Center, New York, New York
WK
        William N. Copeland, University of Oregon
WNC
        William R. VanKeuren, Indiana University
WRV
        William Sheppard, Brooklyn College, City University of New York
WS
        Warren Sturgis, Mental Health Materials Center, New York, New York
WSt
        Wilbert Thurn, Eugene Public Schools, Oregon; University of Oregon
WT
        Walter T. Smith, University of Oregon
wts
        Zetta Anderson, Indiana University
Z\Lambda
```

Appendix Four

EVALUATION SITES: PHASE II OF EVALUATION PROCESS (Public schools which provided "in-the-field" evaluations from teachers and students)

Bemidji, Minnesota BeM Bloomington, Minnesota BM BMdBethesda, Maryland Columbia Heights, Minnesota CHM Carlisle, Indiana CI College Park, Maryland CPMd. EM Edina, Minnesota EO Eugene, Oregon FCV Falls Church, Virginia Flossmoor, Illinois FI Grand Rapids, Michigan GRM Half Moon Bay, California HMBC Jackson, Mississippi JM MM Minneapolis, Minnesota Orland Park, Illinois OPI Phoenix, Arizona PA PHI Palos Hills, Illinois Potomac, Maryland PMd Rochester, Minnesota RM Rockville, Maryland RMd SI Sullivan, Indiana St. Paul, Minnesota SPM Terre Haute, 'Indiana THI White Bear Lake, Minnesota WBLM MW Wayzata, Minnesota